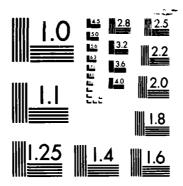
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Long Term Statistical Measurements of Environmental Acoustics Parameters in the Arctic

AEAS Report No. 1 - Ambient Noise Levels in the West Greenland Sea

B.M. Buck and D.W. Jaecks

PRL

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Long Term Statistical Measurements of Environmental Acoustics Parameters

in the Arctic

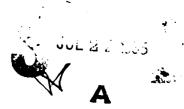
AEAS Report No. 1 - Ambient Noise Levels in the West Greenland Sea

B.M. Buck and D.W. Jaecks

Polar Research Laboratory, Inc. 6309 Carpinteria Avenue Carpinteria, California 93013

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This is one of a series of technical reports on arctic environmental acoustics data collected between 1970 and the present by Polar Research Laboratory. Inc. for various navy agencies. Propagation loss data were taken using manned ice camps and aircraft and ambient noise levels were measured using arctic data buoys that operated through the NIMBUS 6 and NOAA series satellites. The present report of the series (AEAS Report No. 1) addresses one of a total of six arctic geographic areas - the West Greenland Sea, and presents ambient noise levels taken every three hours at the synoptic weather times from nine data buoys that drifted through the area. These data buoys collect a very large amount of independent measurements that are impractical to present in raw form. Therefore, a first-level statistical analysis was performed to allow reporting and distribution. These data, along with other regularly available meteorological, oceanographic and ice data, should enable higher order analyses and modeling for both prediction and understanding the mechanisms of arctic background noise. The data buoys, while limited in some respects, offer the only present means of long-term, wide-area investigations of arctic ambient noise on a true statistical basis.

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	Data buoy active periods in Area 2	
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(4-hydrophone SYNARGOS)

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General Background

This is intended as one of a series of "Data Reports" on Arctic environmental acoustics drawn from a base collected by Polar Research Laboratory. Inc. over the years 1970 to the present under contracts with the Office of Naval Research (Undersea, Acoustics, Technology and Arctic Branches), the Arctic Submarine Laboratory NOSC and the Naval Electronics Systems Command, Code 612. Sponsorship of this analysis and reporting effort is from the ASW Environmental Acoustics Support office of the Naval Oceanographic Research and Development Activity through contract NOO014-84-C-0394 with the Office of Naval Research, Arctic Branch. The data, to be presented in several volumns and distributed as completed, will cover propagation loss measurements primarily from underwater shots but also including some CW experiments from manned ice camps, and ambient noise measurements made from Arctic data buoys using the NIMBUS 6 and NOAA series satellites. The data are to be presented in a form of "first-level" statistical analysis. That is, in its primary form suitable for distribution to those interested in Arctic acoustics, in much the oceanographic data is distributed after a typical cruise. It is intended that higher level analyses can be made from these reports and other available data by those wishing to do so. Some of the data have already received such treatment and were reported in various journals and technical reports (see, for example, references 1 through 7).

Data Collection Instrumentation

For the collection of both propagation loss and ambient noise data, single omni hydrophones at various depths under the ice were used. These units were acceleration-cancelling phones mounted from cable

<u>.</u>

suspensiions designed to minimize "flutter" and "bounce" self-noise. In some cases these suspensions were link chain to a 11 kg (25 pound) weight, and others used a Kevlar "hair faired" electromechanical cable, also to a 11 kg weight. All phones were made neutrally buoyant and decoupled from the suspension to further decrease flutter effects. They were covered with "hairs" of polypropalene to minimize flow-generated noise and to attain neutral buoyancy. All were calibrated at either TRANSDEC/NOSC, Underwater Sound Reference Detachment/ONR, or at PRL using secondary standards from the former labs. Considerable pains were taken in the field to assure that the systems were not contaminated from nearby ice camps or icebreakers. This was accomplished by operating from small, remote, "quieted" ice camps, where all equipment was designed to be battery-operated. The data buoys, of course, were completely uncontaminated by the presence of manned activities.

Several experiments were conducted to measure the effectiveness of the hydrophone suspension system in eliminating, or at least minimizing, self noise caused by the shear current (primarily from wind-driven ice movement). One technique used for this was reported in reference 8. It was concluded from these experiments that the measurements at 10 Hz and above were affected very little by self noise. However, measurements below 10 Hz were affected somewhat, and therefore should be viewed with caution. An analysis is underway at this time to determine the degree of this contamination below 10 Hz. This is being done by performing statistical correlations between measured ice speed (the prime producer of shear current, especially in the Central Arctic) self-navigating ambient noise data buoys and 3.2 and 5 Hz noise level measurements, and between the latter and tabulated seismic activity in the Arctic area. Various experiments have indicated the possibility that seismic activity leaking into the Arctic Basin via T-phase can affect the noise spectrum below 10 Hz.

Explosives used in the propagation work at short ranges were: standard Signal, Underwater Sound (SUS) 0.8 kg (1.8 pound) charges Mk 61 (18 and 244 meters - 60 and 800 feet); Mk 82 (18 and 91 meters - 60 and 300

feet); and specially modified Mk 61s for detonation at 61 m (200 ft), 122 m (400 ft) and 183 m (600 ft) - dropped through ice holes at manned ice camps and from low-flying aircraft into open leads. For the longer ranges, these charges were augmented with block charges of TNT, where the SUS were used to detonate the larger charges. Ranges were measured by various means of navigation including fixes from Transit satellite receptions and bubble sextant sun lines from the ice and Omega receivers aboard the aircraft. In many cases the bubble pulse interval of the explosive was monitored using low-sensitivity phones in the vicinity of the charges, in order to determine effective TNT yield for source energy calculations. However, in other cases this was not feasible.

The ambient noise data buoys were first employed in the Beaufort Sea in the spring of 1975 and used the NIMBUS 6 satellite, with its Random Access Measurement System (RAMS) for navigation and retrieving noise level, atmospheric pressure and air temperature data. The data handling limitations of that satellite system constrained the measurements to four 1/3rd octave bands (3.2, 10, 32 and 1000 Hz for some buoys and 10, 32, 100 and 1000 Hz for others). The levels at those frequencies were sampled at each of the eight, 3-hourly synoptic weather times (0000, 0300, 0600....Z) each day. Those data buoys, called "SYNRAMS" for Synoptic RAMS, were used primarily in the western Central Arctic and are described in reference 9. When the TIROS ARGOS (NOAA series) satellite became available, the activity had shifted to the Eurasian Basin of the Central Arctic and were used there. ARGOS enabled more precise navigation (200-300 m circular probable error) and more data throughput. The SYNARGOS data buoy, described in detail in reference 10, saw its first use in 1980 and makes measurements of ambient noise level in eleven 1/3rd octave bands spaced between 5 and 1000 Hz in some cases, and 5 to 300 Hz in others. All bands are sampled at the weather synoptic times every three hours, the same as SYNRAMS buoys. Each filter output is averaged with a constant bandwidth averaging time product of 32 Hz seconds. The data are rough-processed by Service ARGOS and sent to PRL in the form of digital tape recordings every two weeks.

At PRL the hydrophone calibrations, preamp gain, bandwidth corrections and other system gains are applied to derive the spectrum levels of ambient noise at each 1/3rd octave filter center frequency.

The buoys are batteried to live for a full year, however, because of the continuous movement of the ice out of the basin and the deployment locations used, the average lifetime attained in the Eastern Central Arctic is on the order of ten months. Each buoy collects a large amount of sampled data - for example, 2,640 1/3rd independent measurements each month, or about 26,400 measurements during a typical 10 month lifespan. Some of the SYNRAMS data buoys in the Beaufort Sea were active for over a year, one attaining a two year productive life. Although no array is involved, and the measurements are straightforward 1/3rd octave levels. the buoys enable measurements uncontaminated by artifacts in areas and in seasons that impractical of collection by any other means at the present time. provide large data bases that allow true statistical portrayal of the background noise, and get around the constraints of spring-only manned ice camps in the Central Arctic. At present there are ongoing developments to extend the Arctic data buoy to study directional qualities of the noise background, signal and noise coherency. propagation loss (using an expendable projector) and the effects of hydrophone depth on both signal and noise. While they will add significantly to the knowledge of the acoustic noise background, they will not supplant or detract from the value of the 1/3rd octave omni buoys that are the subject of this series of reports.

With one exception, all of the SYNRAMS and SYNARGOS data buoys employed a hydrophone at 30.5 m (100 feet) below sea level, or about 27.4 m (90 feet) below the bottomside of the ice. One SYNARGOS buoy had phones at four depths: 9 m (30 ft), 30.5 m (100 ft), 61 m (200 ft), and 91 m (300 ft) below sea level. In the data to be presented, the various buoys are identified by their "ARGOS identification number" (I.D.).

Reporting Areas

Propagation data will be reported in a future report of this series where the specific propagation paths are described. For ambient noise, however, the measurements will be given in separate reports by geographic areas of the Arctic and its adjacent seas. Figure 1 gives the areas for this and the future ambient noise reports. Figure 1 does not mean to imply that the data buoys evenly covered each of the areas - only that the buoys were in a specified area. These areas are: (1) the North Barents Sea; (2) the West Greenland Sea; (3) the East Central Arctic Ocean (i.e., the Eurasian Basin demarked by the Lomonosov Ridge on one side and the 1000 m curve on the other); (4) the West Central Arctic; (5) the Kara Sea; and (6) the Chukchi Sea. This preliminary area selection was somewhat, but not entirely, arbitary. For example, areas (3) and (4) are probably not statistical different, but the measurements were separated by several years and used different type buoys. Area (1) and most of (2) are shallow, and close to the ice edge, but area (2) is one of very rapid ice movement. Areas (5) and (6) are shallow and widely separated from the other "second-level" analyses are done on the presently reported data and new data sets collected, it will probably result in a different arrangement of areas. For the present, however, the areas of Figure 1 will suffice as a means of separating the data into reasonable-sized reports.

Data Presentation Format

The data will, insofar as practical, be presented in a standard format for each area and each data buoy. In the Central Arctic, the analysis periods are monthly. In other areas, where the ice movement is rapid, shorter periods are used. For each data buoy the following presentations are given:

a.) A tabulation of data buoy positions for its life in a particular reporting area, and the time/date of the fix.

- b.) A plot of noise level vs frequency for three selected percentiles: 5, 50, and 95. These percentile levels are the percentages of the time the noise is less than the value plotted. This is the general way Wenz portrayed open ocean noise level statistics, and we adopted it long ago as a way of comparing Arctic and open ocean noise. The dashed straight line in this figure is Knudsen's "Sea State Zero" value extrapolated below 100 Hz, and is used as a fiducial for easily comparing Arctic data sets. Wenz's curves at low frequencies were shipping dependent and their inclusion tended to obscure the Arctic data. Knudsen's single line did not.
- c.) At the bottom left of the 5/50/95 %tile curves is a geopositional plot of the buoy's track for the reporting period. The small square is the starting location.
- d.) A time-history of the levels at each frequency. This is a useful curve in first-level analysis in that it shows clearly where the data reached limits t.he of t.he measurement system. Truncations at the lower end indicate the noise reached the preamp self noise limit; while those at the top would be indicative of saturation. Within a 6-10 dB range of the bottom, levels were corrected to take out the self noise. Readings closer to the measured self noise limit of an individual buoy were not considered correctable, and were culled hence "holidays" in some of the curves. These time histories are also valuable in noting distinct

MANTH: AUGUST 83 BUGY: 1762

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EAST: -14,734 DISPLACEMENT (N. MI.): 152.872 NORTH:-152.161 DIRECTION (TRUE): 185.549

THE NUMBER OF DATA SAMPLES IS 232

	z	230	230	230	230	230	230	230	230	230	230	230		
	MAX	100.2	6.66	95.3	92.9	90.5	87.8	37.4	84.5	85,3	0.62	65.03		
	726	85.4	87.1	34.9	82.2	82.1	82.6	81.4	ი. ი.	6.11	71.6	60.7		
	206	81.3	84.4	88.9	80.1	80.4	79.3	79.8	78.5	75.0	69.8	93°0		
	75%	6.97	80.3	79.8	76.2	77.5	75.8	75.4	75.3	71.8	65.5	54.1		
MEDIAN	20%	72.2	76.5	76.0	72.3	74.3	73.3	72.5	71.8	67.6	60.3	52.7		
Ξ	25%	es. 69	72.3	71.8	70.1	72.1	70.6	69.3	68,3	64.8	56.7	52.0		
	10%	66.8	68.2	63.6	67.2	69.2	8.79	67.1	66.5	63.0	10°00	51.2		
	2%	64.8	67.3	67.7	66.3	68.3	87.8	65.8	65.0	61.5	52.7	50.2		
	Z Z Z	58.9	63.2	61.1	61.1	64.3	64.4	59.0	ທ ໝໍ	56.3	50.7	44.5		
STD	730	6.9	6.7	0. 0	5.1	4.4	4.5	4.7	4. 00	4. 3	U. O	3.1		
		73.7	76.7	76.2	73.3	75.0	73.6	72.6	71.9	69.5	61.1	ග ලබ		
FREGUENCY	ZH	្រំ	10.0	12.0	15.0	20.0	25.0	31.5	40.0	50.0	100.0	320.0	STOP	α

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DATA BY MONTHS

BUOY ID 1762

SEPTEMBER 1983

DAY	GMT	POSIT	ION		ΓΑΥ	GMT	POS	SITION
264	201	79.496 N	11.691	W	266	1959	79.527	N 12.488 W
264	744	79.504 N	11.677	W	267	201	79.535	N 12.441 W
264	1.429	79.520 N	11.791	W	267	753	79.546	N 12.394 W
264	1935	79.524 N	11.812	W	267	1352	79.551	N 12.272 W
265	147	79.530 N	11.941	W	267	1937	79.558	N 12.247 W
265	733	79.528 N	12.014	W	268	149	79.512	N 12.362 W
265	1417	79.535 N	12,006	W	268	731	79.516	N 12.393 W
265	1922	79.535 N	12.141	W	268	1400	79.441	N 12.678 W
266	125	79.542 N	12.124	W	268	1915	79.382	N 13.100 W
266	721	79.542 N	12.124	W	269	201	79.365	N 13.141 W
266	1405	79.542 N	12.124	W				

DAY	GMT	POS	BIT	ION		DAY	GMT	P08	317	TION	
244	141	80,150	N	8.636	W	254	801	78.964	N	9.375 W	i
244	747			3.636	W	254	1416	73.975	Ν	9.593 W	ļ
244	1431		N	8.298		254	1956	79.014	Ν	9.612 W	ļ
244	1835	80.097	Ν	3.047	W	255	201	79.019	Ν	9.712 W	
245		80.071	N	7,902	W	255	754	79.019	N	9.712 W	
245	725	80.071	Ν	7.903	W	255	1432	79.063	Ν	9.731 W	i
245	1409	80.045	Ν	7.674	W	255	1944	79.094	N	9.701 W	
245	2001	79.993	Ν	7.476	W	256	140	79.098	Ν	9.719 W	
246	156	79.986	N	7.459	W	<i>2</i> 56	743	79.139	Ν	9.854 W	
246	801	79.986	Ν	7.459	W	254	1426	79.149	Ν	9.875 W	
246	1348	79.836	N	7.483	W	256	2001	79.156		10.089 W	
246	1954	79.786	Ν	7.519	W	257	113	79.153		10.122 W	
247	133	79.717	N	7.630	~	257	601	79.170	Ν	10.215 W	
247	752	79.717	Ν	7.630	W	257		79.198		10.195 W	
247	1432	79.669	Ν	7.348	W	257	1952	79.210		10.199 W	
247	2001	79.617	Ν	7.051	W	258	201	79.203		10.197 W	
248	112	79.558			W	258		79.238		10.465 W	
248	801	79.546			W	253		79.270		10.677 W	
248	1432	79.480		6.868	W	258		79.296		10.640 W	
248	1946	79.368	Ν	7.168	W	259		79.296		10.640 W	
249	039	79.186		7.759	W	259		79.301		10.625 W	
249	1423	79.140		7.991	W	259		79.316		10.733 W	
249	1924	79.103		8.266	W	259		79.361		10.668 W	
250	200	79.103		8.266	W	259		79.389		10.556 W	
250	715	79.017		8.448		260		79.407		10.611 W	
250	1401	78.973		3.762		260		79.403		10.617 W	
250	1902	78.928		9.065		260		79.441		10.645 W	
251	157	78.928		9.160		260		79.462		10.549 W	
251	703		N	9.160		261		79.451		10.546 W	
251	1346	78.939		9.373		261	641	79.451		10.547 W	
251	1850	78.942		9.517		261		79.465		10.546 W	
252	142	78.948		9.472	W	261	2001	79.474		10.609 W	
252	450 4604	78.947		9.571	W	262		79.450		10.675 W	
252	1334	78.951	N	9.557		262	801	79.417		11.232 W	
252	2000	78.962		9.431	W	262 262	1432 1959	79.417 79.431	N	11.232 W	
253	132	78.961	N	9,327	¥ ₩	262 263	109	79.431		11.381 W	
253	753 1432	78.942	N	9.364 9.284		∠o⊲ 263		79.432		11.381 W	
253 253		78.957		9.433	W	263		79.457		11.600 W	
	2001	78.947			W						
254	119	78.951	N	9,425	W	263	1747	79.496	N	11.691 W	

BUOY JD 1762

AUGUST 1983

DAY	GMT	POSIT	ION		DAY	GMT	POS	SIT	ION	
235	150	80.928 N	7.374	W	239	1432	80.611	N	8.902	W
235		80.925 N	7.353	W	239	1939	80.574	N	9.233	W
235	1341		7.349		240	047	80.587	Ν	9.188	W
235		80.812 N	7.482		240	737	80.587	N	9.188	W
236	201	80.762 N	7.462		240	1417	80.548	N	9.508	W
236	720	80.761 N	7.454		240	1924	80.565	Ν	9.339	W
236	1401	80.703 N	7.588		241	201	80.529	Ν	9.278	W
236		80.495 N	7.587		241		80.529		9.278	W
237	-	80.673 N	7.604		241	1407			9.367	
237	801	80.679 N	7.869		241		80.439		9.148	
				-	242	201			9.019	
237	_	80.649 N	7.620			712			9.065	
237		80.666 N	8.012		242					
<i>2</i> 38	128	80.668 N	7.993	W	242	1356	80.385		9.065	
238	801	80.663 N	7.993	W	242	1901	80.284	Ν	8,963	W
238	1431	80.610 N	8.003	W	243	154	80.265	N	9.070	W
238	2001	80.617 N	3.603		243	800	80.264	Ν	9.053	W
239		80.618 N	8.624		243	1312	80.264	N	9.053	W
239		80.591 N	8.306		243		80.189		8.862	W

DAY	GMT	POSIT	TON		DAY	GMT	POS	STT	ION	
213	200	82.725 N	7.212		224		82,136		7.724	
213	801	82.711 N	7.232		224	1321			7.724	
213		82.683 N	7,084		224	2001			7.838	-
213	1955	82,684 N	7.195		225		82.041		7.907	
214	146	82.685 N	7.175	W	225		82.042		7.907	
214	752	82.688 N	7.143	W	225		81.955		7.963	
214	1337	82.697 N	7.025	W	225		81.903		8.039	
214	1943	32.692 N	6.868	W	226		81.863		3.158	
215	123	82.685 N	6.728	W	226	734	81.859	Ν	8.162	W
215	801	82.684 N	6.728	W	226	1350	81.793	Ν	8.328	W
215	1315	82.668 N	6.519	W	226	1920	81.790	N	8.335	W
215	1957	32.667 N	6.507	W	227	024	81.760	N	8.388	W
216	101	82.670 N	6.428	W	228	144	81.630	N	8.535	W
216	749		6.413	W	228	651	81.630	N	8.535	W
	1401	82.658 N	6.393				81.575		8.517	
	1935		6.413				81.536		8,472	
217	201		6.399	-	229		81.511		8.484	
217		32.638 N	6.439		229		81.511		3,433	
		82:621 N	6.424		229		81.452		8.334	
217		82.591 N	6.399		229		81.429		3.302	
219		82.592 N	6.337		230		81.430		8.284	
219	651		6.343		230		31.430		3.284	
		82.598 N	6.267				81.385		8.084	
		82.600 N	6.384				81.348		7.901	
220		82.600 N	6.527		231		81.322		7.807	
220	757		6.546		231		81.321		7.806	
		82.584 N	6.584		231		81.302		7.738	
		82.576 N	6.633		231		81.267		7.510	
221		82.571 N	6.658		232		81.246		7.521	
221	301		6.741		232		81.245		7.507	
221	1311		6.741				81.235		7.430	
221	_	32.503 N	6.900			-	31.193		7.343	
222	_	82.498 N	6.924	W	232		81.159		7.324	
222	755		6.997	• •	233		81.159		7.324	
222			7.042				81.159		7.324	
223		82.366 N 82.322 N	7.042				31.105		7.288	
223		82.243 N	7.482		234 23 4		81.070		7.250	
					234		31.066		7.267	
223		82.322 N	7.214				81.059		7.294	
223		82.202 N	7.541						7.329	
224	129	82.167 N	7.698	₩	234	1.449	30.986	1.4	1.527	W

APPENDIX 1

Date Buoy I.D. 1762

Life in Reporting Area 2 (West Greenland Sea)

1 Aug 1983 - 26 Sept 1983

Type: SYNARGOS (5 - 320 Hz)

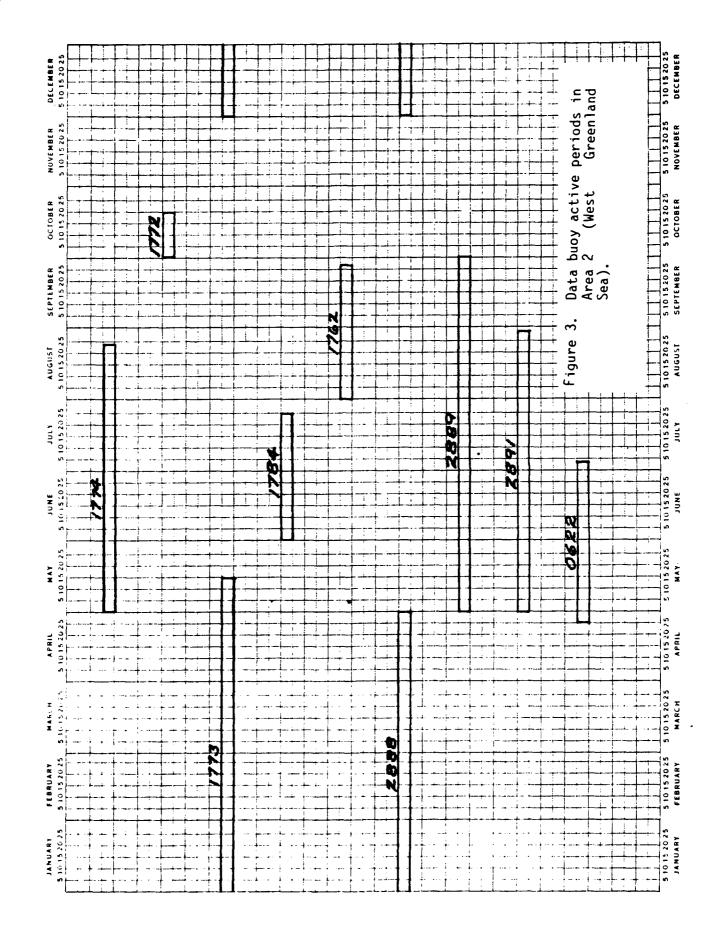
- (8) "A two-hydrophone method of eliminating the effects of nonacoustic noise interference in measurements of infrasonic ambient noise levels", Beaumont M. Buck and Charles R. Greene, Journal of the Acoustical Society of America, 68 (5), pp. 1306-1308, November 1980
- (9) "The SYNRAMS ice station", S. P. Burke and B. M. Buck; OCEAN 75 IEEE and MTS Conference Proceedings, 22-25 September 1975 (AREA Technical Report No. 001, PRL TR004, 1 January 1976)
- (10) "The SYNARGOS ambient noise measurement buoy", Samuel P. Burke,
 Beaumont M. Buck and Charles A. Luther. Proc. of the IEEE/MTS
 Ocean '82 Conference, Washington, D.C., 1982
- (11) "Map of the Arctic Regions," Am. Geographic Soc. (undated)
- (12) "Arctic Ocean ice deformation chart using sonar data recorded from nuclear submarines," L.A. LeSchack, Proc. 7th Int'nl Conf. on Port & Ocean Eng. Under Arctic Conditions (POAC 83), Helsinki, Finland 5-9 Apr. 83.
- (13) "Ice depth and roughness measurements in the Greenland-Svalbard Strait," B.M. Buck (report in preparation)

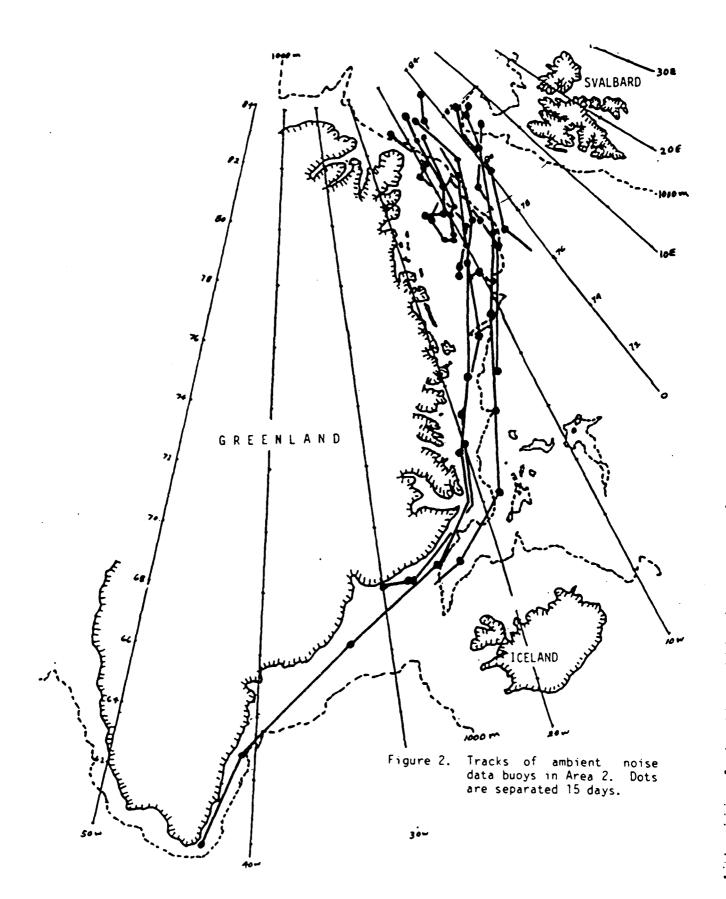
REFERENCES

(1) "Measurements of underwater explosive energy source levels for yields 0.0012 to 126 pounds", B. M. Buck and A. W. Magnuson, AC Electronics-DRL Report TR73-02, April 1971

T"

- (2) "Arctic Ocean background noise caused by ridging of sea ice", R. S. Pritchard, JASA Vol 75, No. 2, Feb 84, pp 419-427
- (3) "Under-ice acoustic noise spectra and correlations at high frequencies", C. R. Greene, PRL TR21, 24 August 1979
- (4) "Influence of atmospheric pressure gradient on under-ice ambient noise", Charles R, Greene and Beaumont M. Buck, presented at the 98th meeting of the Acoustical Society of America, Salt Lake City, 26-30 November, 1979. Abstract in the Journal of Acoustical Society of America, Supplement 1, Vol. 66, Fall 1979, p. S25
- (5) "Beaufort ambient noise, sources and spectra", B. M. Buck, Workshop on the interaction between man-made noise and vibration and Arctic marine wildlife, San Diego, 24-29 February 1980
- (6) "Preliminary underice propagation models based on synoptic ice roughness", Beaumont M. Buck, Arctic research in environmental acoustics, AREA 9, PRL TR30, 28 May 1981
- (7) "Arctic underice acoustic (surveillance) technology (URSA), computer program for the prediction of transmission loss under winter ice conditions and all-season ambient noise levels in the Central Arctic", B. M. Buck and K. A. Rosser, URSA 19, PRL TR38, 20 Jan. 1982





One data buoy, I.D. 1774, also had in its instrumentation suite a prototype ARGOS 10-element thermistor string that measured water column temperature in 20 m increments between 20 and 200 m with a pressure sensor at 200 m. These data were translated to sound velocity using Wilson's equations and an assumed salinity of 34 parts/thousand.

Another of the buoys in Area (2), I.D. 1784, was the multi-level SYNARGOS that had phones at 9m (30 ft), 30.5 m (100 ft), 61 m (200 ft), and 91 m (300 ft).

Figure 2 shows the tracks of the buoys in Area (2) to give an estimation of their concentration. Figure 3 is a chart showing the times of the year the various buoys were in Area (2). In most cases the buoys drifted into Area (2) from their initial deployed positions in Area (3). Note that the coverage by months is reasonably spread over the seasons, but with a somewhat larger concentration in early summer (June-July). Figures 2 and 3 should be taken into account when drawing generalizations for the area.

The body of the data is separated into sections for the individual data buoys and the figures in those sections are not numbered.

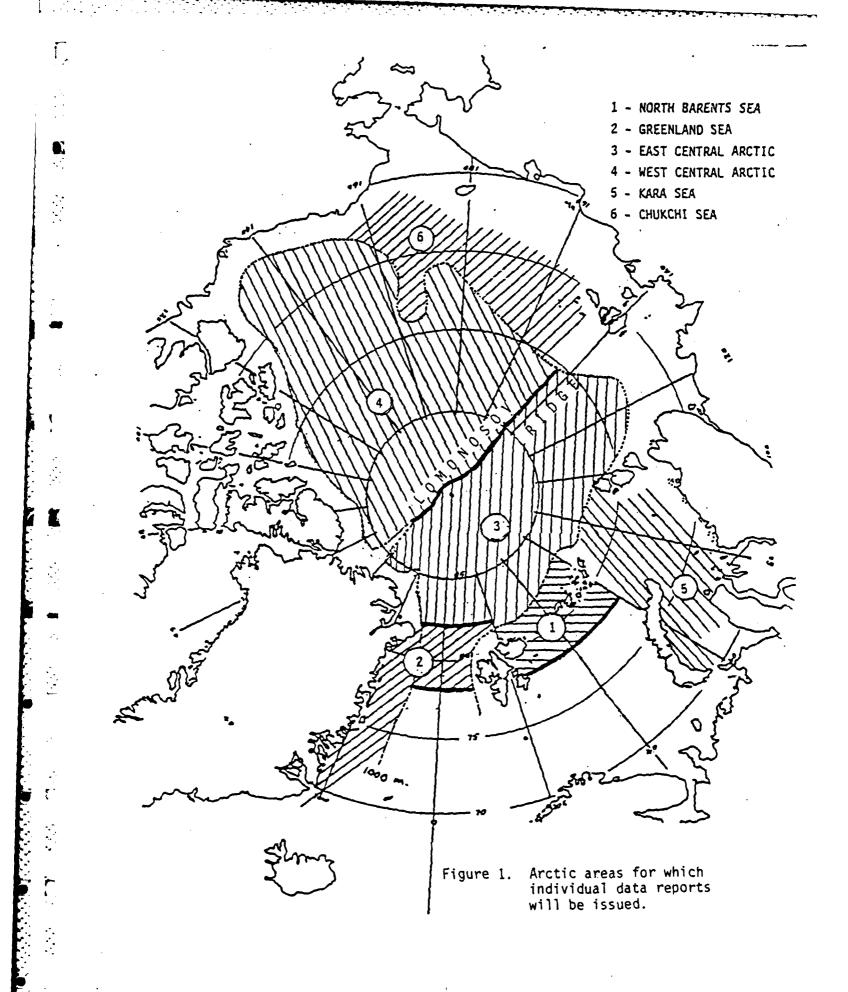
2

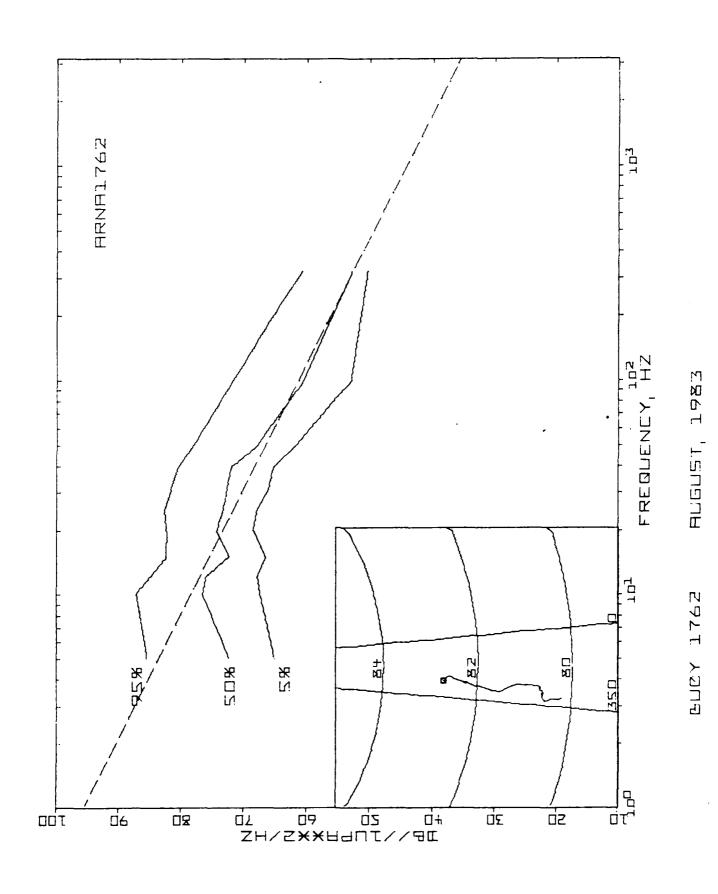
periodicities in the levels. Note particularly those of about 12 hours, which are attributed to either the "inertial period" associated with the Coriolis Force, or tidal influences. Later second-level analyses should determine this often-observed effect.

- e.) A tabulation is given of the statistical values for the reporting period, including: the 5,10,25,50,75,90,95 percentiles; the maximum, minimum, average, and number of samples at each frequency; the buoy's displacement distance (in n.mi.) and direction (true) for the reporting period and the north/east/south/west components of the displacement
- f.) For those data periods where the data buoy is located in the marginal zone, an ice situation chart (provided by the Naval Polar Oceanography Center, Suitland) is included, along with the buoy's position, and its distance to the nearest ice edge, the weekly distance moved and the average speed over the ground (kts).

The Present Report

This first report of the series is for ambient noise in the West Greenland Sea (Area 2). It consists of data from eight SYNARGOS data buoys and one special buoy called "ANRAMS" that used NIMBUS 6, and was installed in 1977 during the ONR East Arctic Program's pilot experiment. This latter buoy's results has already been reported (reference 13), but was included here for completeness, and follows a somewhat different reporting format, for ease of inclusion.





U

6100:51NGRAM3 10720783 09:26:40 6IVE MONTH (UP TO 9 CHARACTERS): 5EPT 83 BUGY NUMBER: 1762

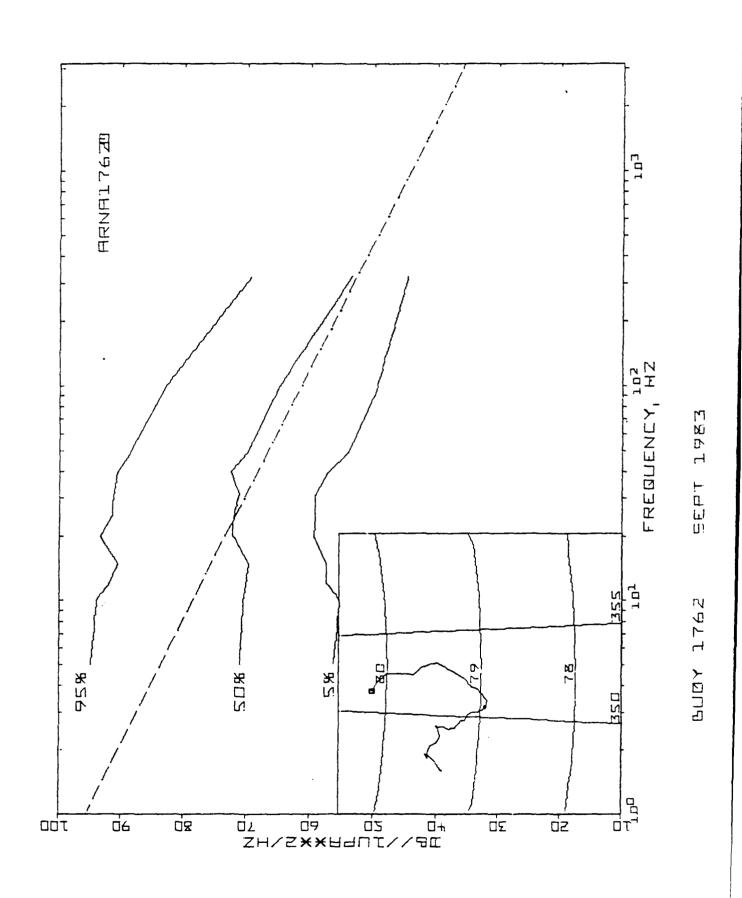
MONTH: SEPT 88 RUDY: 1

CUITEUT IN FILE ARNA1762

EAST: 48,187 DISPLACEMENT (N. MI.): 67.382 NORTH: -47.099 DIRECTION (TRUE): 225.679

THE NUMBER OF DATA SAMPLES IS 202

		_		_	4 184		_			_	_	_	
	HAX				٠. ١.								
	20%	6.46	99	91.0	90.4	99	© €	91.2	20.6	ල ල ර	30 73 60	60.00	
	20%	0.88	05.4	84.9	04.4	87.3	66.93	86.4	86.4	0.00	75.13	62.0	
	75%	77.6	76.5	76.7	76.8	79.3	79.3	79.8	79.8	76.8	69.8	57.2	
MEDIAN	20%	70.9	70.4	70.0	69.0	72.1	72.0	71.1	72.5	9.69	64.7	0.00 4.00	
Σ	25%	66.09	00 00 00 00	65.4	64.1	6.53	6.99	66.5	66.5	63.0	57.8	51.2	
	10%	ତ. ଫୁଡ଼	60.4	61.1	60.3	61.8	61.9	©.09	00. 00.	0.90	٠. وي	्. ्.	
	%	56.0	 	57.2	57.2	0. 0. 0.	0.65 0.00	59.0	57.1	99.6	49.1	44,5	
	NIE	54.6	51.7	00 00 00 00 00 00 00 00 00 00 00 00 00	ტ ცე	55.7	6. 100	54.0	53.1	49.0	46.2	43.7	
STD	I'E'V	10.01	10.3	9.4	7.4	6.7	٠. د،	(C)	2.7	7.6	") (*)	6.4	
	AVG	72.8	71.4	71.7	71.0	73.5	73.4	73.0	73.0	70.1	ा • ५५%	54.4	
FREGUENTY	ZH	O ပြ	10.0	12.0	15.0	20.0	25.0	ლ ლ	40.0	20.0	100.0	320.0	STOP



DATA BY WEEKS

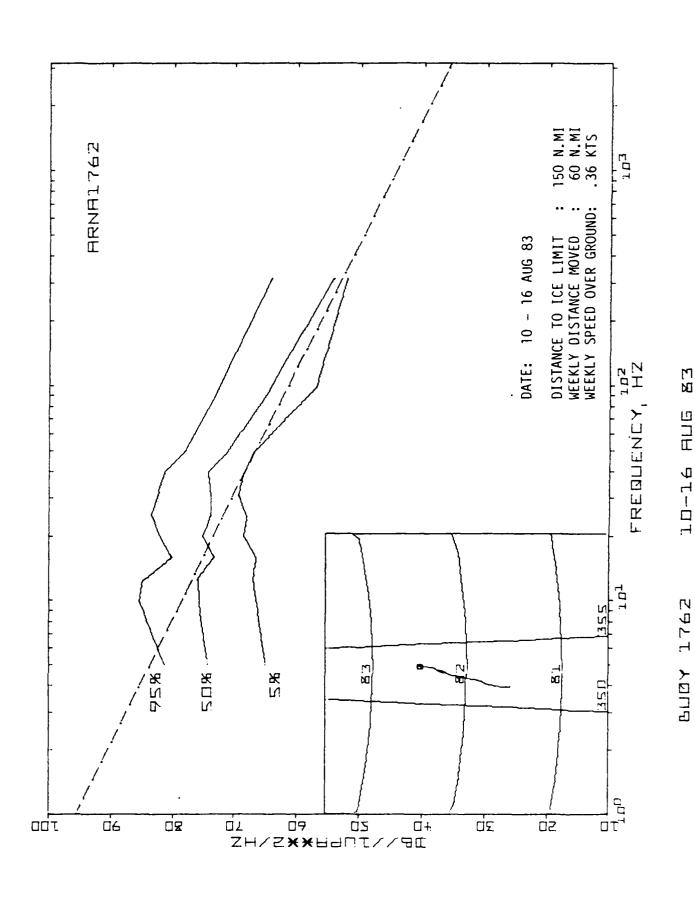
MONTH: 10-16 AUG 83 BUDY: 1762

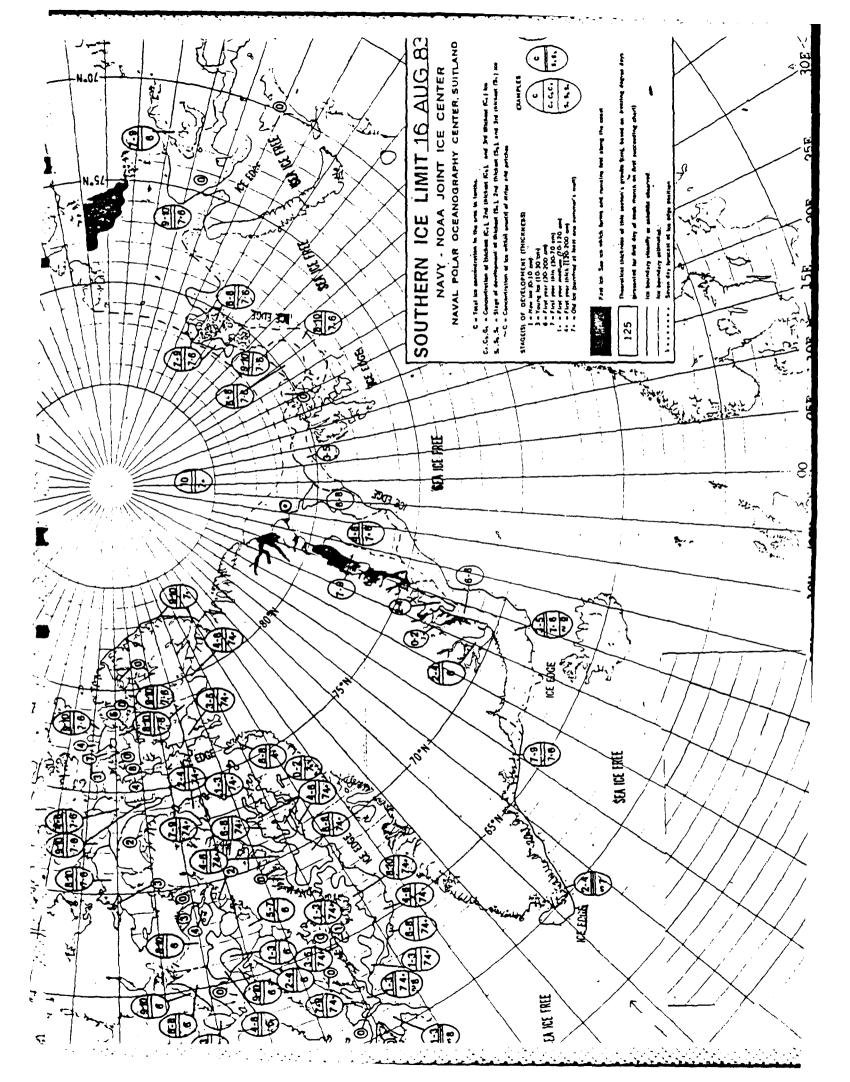
CUTFUL IN FILE ARNA1762

EAST: -13,045 DISPLACEMENT (N. MI.): 60.640 NORTH: -59.220 DIRECTION (TRUE): 192,442

THE NUMBER OF DATA SAMPLES IS 48

FREGUENCY		STD				Σ	1EDIAN					
ZH	AVG	DEV	ZIZ	79	10%	25%		75%	200	756	MAX	Z
្រំ	74.1	٥. 4	64.1	64.8	66.2	70.1		78.2	80.4	ල. ව	<u>ः</u> . ५	⊕ ∀
10.0	75.0		66.3	66.3	67.3	69.1		78.3	(4 (0) (0)	05.4	87.1	4
12.5	75.4		65.3	66.8	68.6	70.6		78.9	82.0	€4.9	00 100 00	7
16.0	73.4		S 137	66.3	68.1	70.1		76.2	77.3	SO. 1	83.4	<u>्</u>
20.0	75.5		67.3	e . e 9	71.5	72.7		77.5	€0.4	32.1	୍ର ି . 4	4
25.0	75.2		67.8	67.8	70.6	72.7		77.4	$\frac{8}{2}$	83.4	0.70	⊘
in•60	74.6		68.8	69.3	71.1	71.8		75.4	80.4	ල ල	87.4	⊕
40.0	74.8		68.3	©. ©.	71.1	71.8		77.1	20.€	81.4	61.4	্ৰ
50.0	71.8	ტ ტ	65.0	66.7	60.3	9.69	70.8	72.7	76.8	77.9	81.7	₹
100.0	6.4.8		7. 7	56.7	的 例	62.2		67.0	70.7	72.3	74.8	∵
315.0	ນີ. ປັ		51.2	52.0	52.0	53,4		സ ന	61.3	64.0	©. ©9	. .
\$10P												





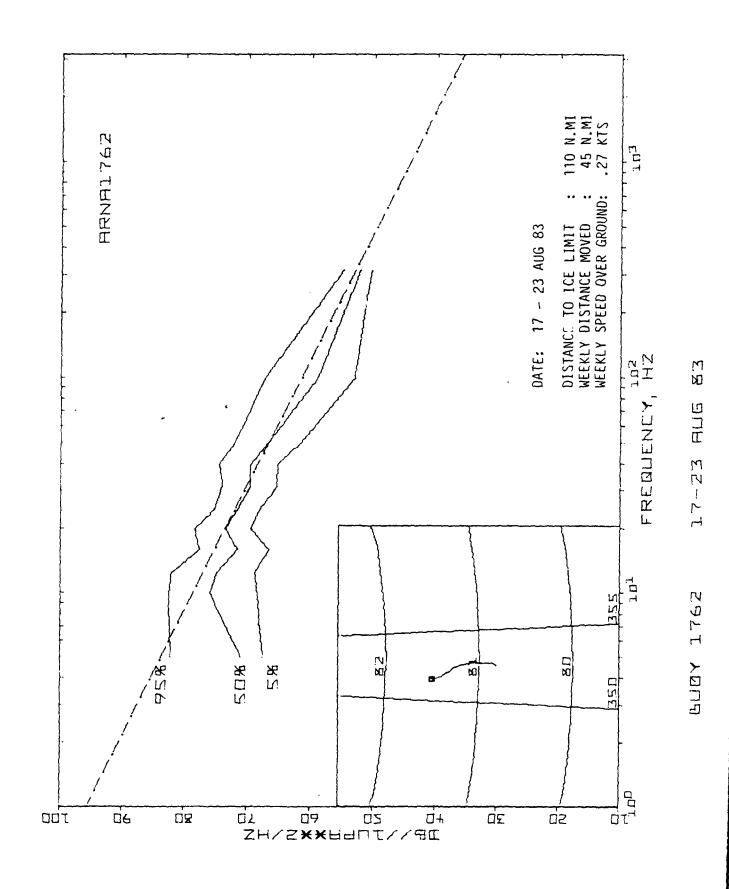
MONTH: 17-23 AUG 83 BUOY: 1762

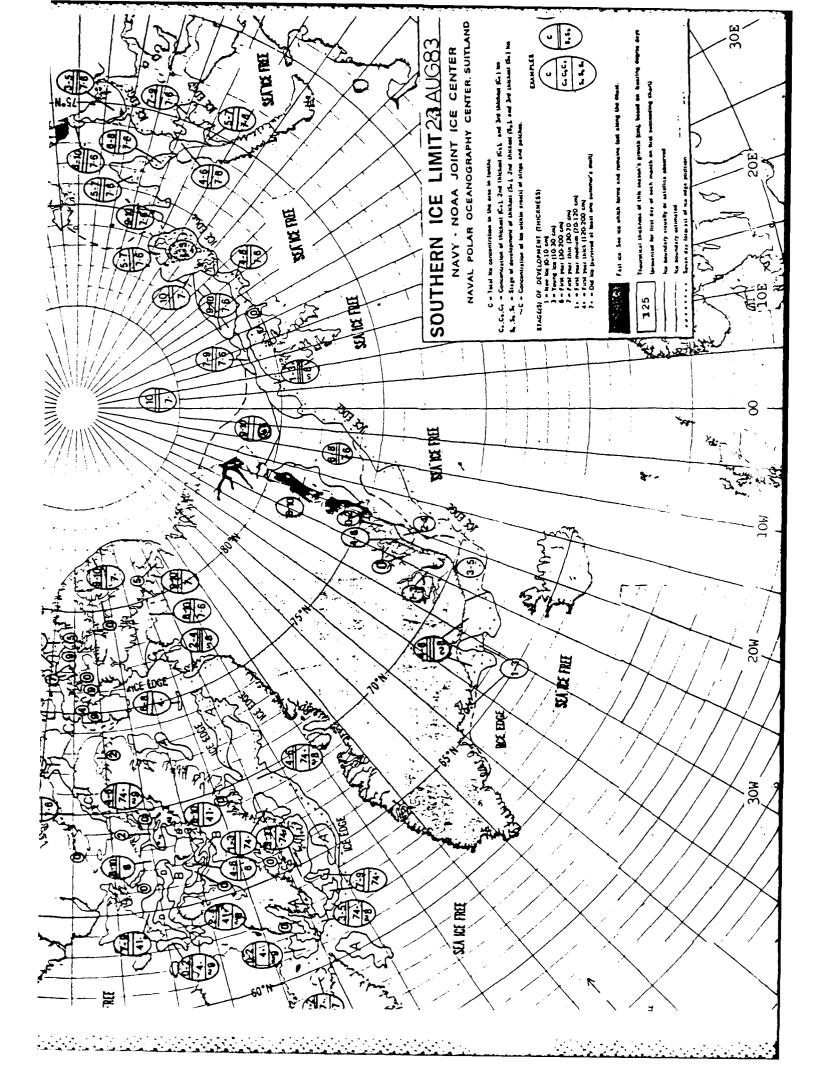
CUTPUT IN FILE ARNA1762

9.446 NORTH: -44.940 EAST: DISPLACEMENT (N. MI.): 45.923 DIRECTION (TRUE): 168.144

THE NUMBER OF DATA SAMPLES IS 56.

	z	90 90	99	99	9 10	90	90	99	99	92	28	90	
	MAX	88.2	84.4	00° 0°	84.4	80.4	77.4	76.3	79.2	79.6	73.0	62.3	
	796	82.1	82.5	82.0	77.3	73.2	74.9	73.8	74.3	71.8	67.0	54.7	
	206	76.9	81.1	80.6	75.5	77.5	73.8	73.2	73.7	70.8	65.5	53.4	
	75%	74.4	79.4	77.8	73.2	75.2	73.3	71.8	71.1	69.0	61.6	52.7	
MEDIAN										66.7			
Σ	25%	63.4	72.3	71.8	69.0	71.5	69.7	68.3	67.7	64.2	55.6	51.2	
	10%	67.3	69.1	70.0	67.2	69.2	67.8	66.5	65.8	63.0	00°	50.2	
	2%	67.3	68.2	9.89	66.3	69.2	67.8	65.1	65.0	61.5	52.7	50.2	
	NΙΜ	65.5	64.5	8.99	65.3	69.2	67.8	63.3	65.0	တ လ	52.7	50.2	
STD	DEV	4.6	4.7	4.1	ю (9)	ر. 0	М П	2.7	ο Θ	9.6	6.4	1.9	
	AVG	72.1	75.8	75.1	71.7	73.4	71.4	69.7	8.69	66.6	59.4	52.3	
FREGUENCY	ZH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





MONTH: 24-30 AUG 83 BUDY: 1762

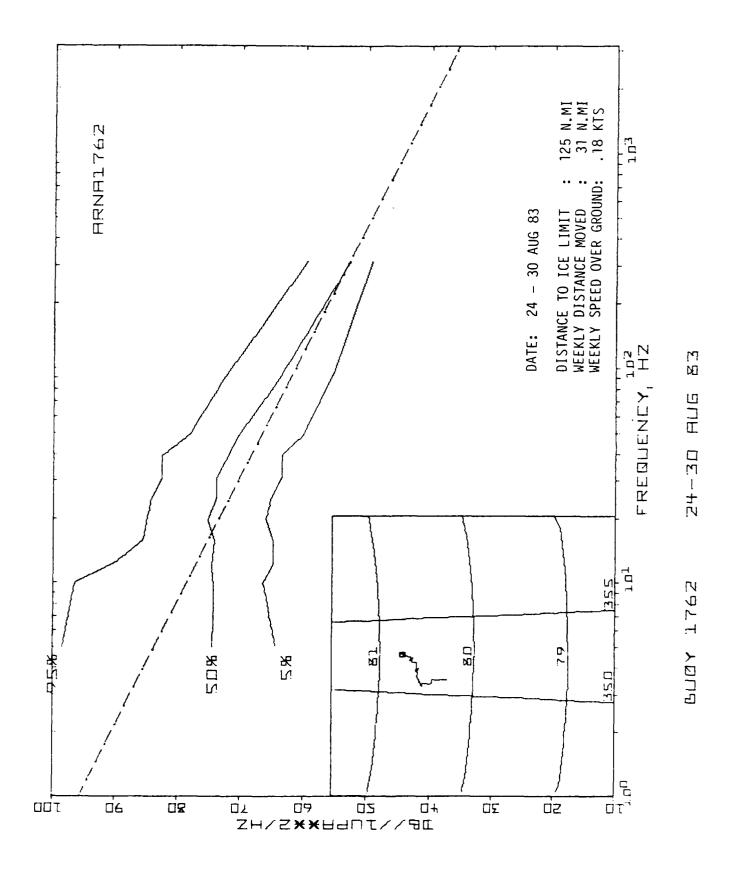
OUTPUT IN FILE ARNA1762

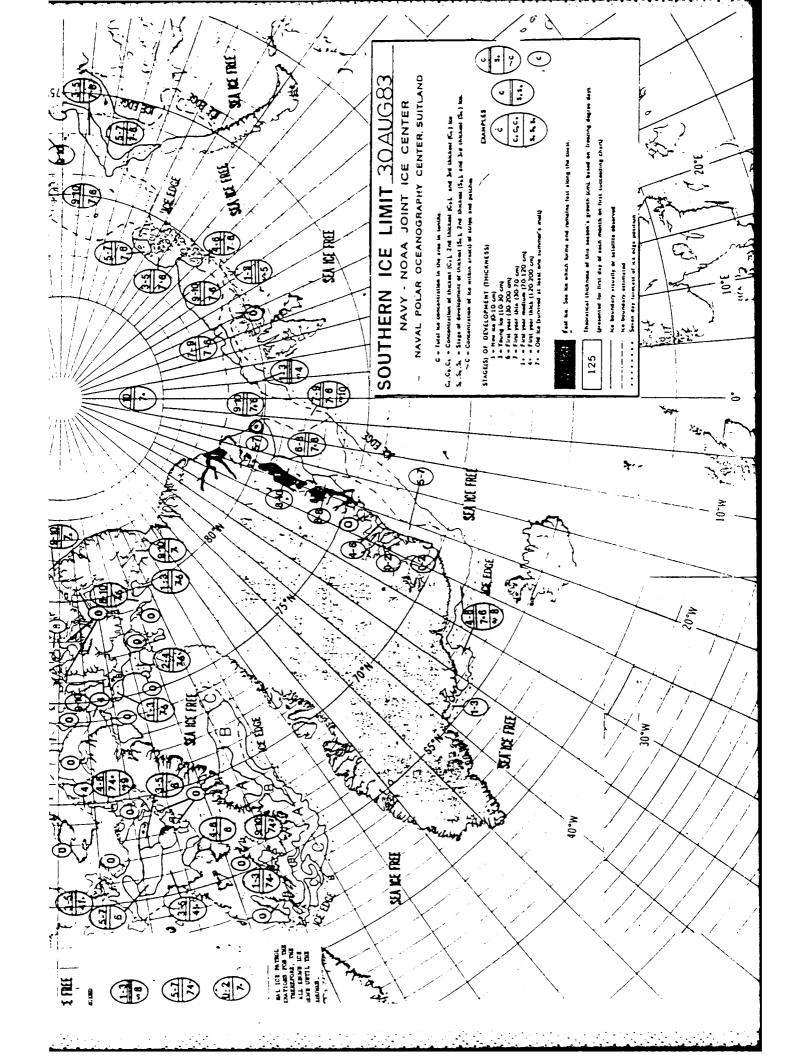
DISPLACEMENT (N. MI.): 33,770 NORTH: -29.820 EAST: -15.848 DIRECTION (TRUE): 208.012

THE NUMBER OF DATA SAMPLES IS 56

	M 5% 10% 25%	TEDIAN 50%	75%	206	756	ΜΑΧ
76.4 9.7 58.9 64.1	66.8 70.1	74.4	80.4	. N . 00 . 00	0.00 00.00 00.00	100.2
8.7 63.2	67.3 70.5	74.2	81.1	85.4	96.4	6.66
7.9 61.1	66.8 70.6	74.6	80.6	87.4	6.68	0. 0.
7.1 61.1	65.3 70.1	74.1	80.1	84.4	0 0 0	92.9
5.9 64.8	67.3 70.1	75.2	78.8	82.1	84.8	90.2
5.8 64.4	66.0 69.7	73.8	77.4	82.6	84.1	86.9
5.9 59.0	66.5 69.3	73.8	77.1	81.4	82,3	00 00 00
හ.ඉ ගැන ග	67.1 67.7	71.8	76.2	80.0	82.3	8 4. 0
5.8 56.8	61.5 64.8	70.2	73.6	76.8	77.9	82.3
52.2	55.6 58.7	62.8	67.6	71.6	71.6	79.0
44.5	51.2 52.0	52.7	55.2	0.00	39,0	61.3

gast \$





MONTH: 31 ALIG-6 SEP 8 BLOY: 1762

DUITPUT IN FILE ARNA1762

8,609 DISFLACEMENT (N. MI.): 70.250 NORTH: -69.720 EAST: DIRECTION (TRUE): 172.977

THE NUMBER OF DATA SAMPLES IS 54

	z	₽ 10	54	54	54	₽©	40	54	54	54	<u>5</u> 4	54	
	MAX	102.9	101.9	98.7	95.4	9.00	92.9	92.4	92.4	00 00 0	0.08 0.08	72.1	
	796	92.6	9. S	93.4	6.76	94.1	91.9	91.3	91.8	000	83.6	70.1	
	20%	92.6	94.6	92.6	92.1	94.1	91.9	90.6	91.2	37.7	81.9	69.2	
	75%	86.4	82.5	81.4	80.9	83.5	83,4	81.4	82.3	78.8	73.0	61.3	
MEDIAN	20%	75.3	76.5	75.3	73.2	76.1	75.8	76.3	75.3	73.6	68.2	56.3	
Σ	25%	70.9	70.5	71.2	68.1	70.1	70.6	69.3	70.2	65,0	61.6	52,7	
	10%	66.8	66.3	66.8	65.0 0	67.3	67.8	66.5	65.8	61.5	56.7	52.0	
	2%	66.2	65.7	66.8	64.1	66.7	67.2	65.3	65.0	60.7	56.2	51.2	
	NIW	65.5	65.1	64.0	63.5	65.5	66.6	65.1	64.2	00 00 00	10° 10°	51.2	
STD	DEV	10.6	10.0	თ თ	0.0	0		រោ ល	≎.7	9.0	8.7	6.2	
				77.4									
FREQUENCY	ZH	୦ . ୮୦	10.0	12.5	16.0	20.0	25.0	ල. වෙ.ග	40.0	50.0	100.0	315.0	STOP

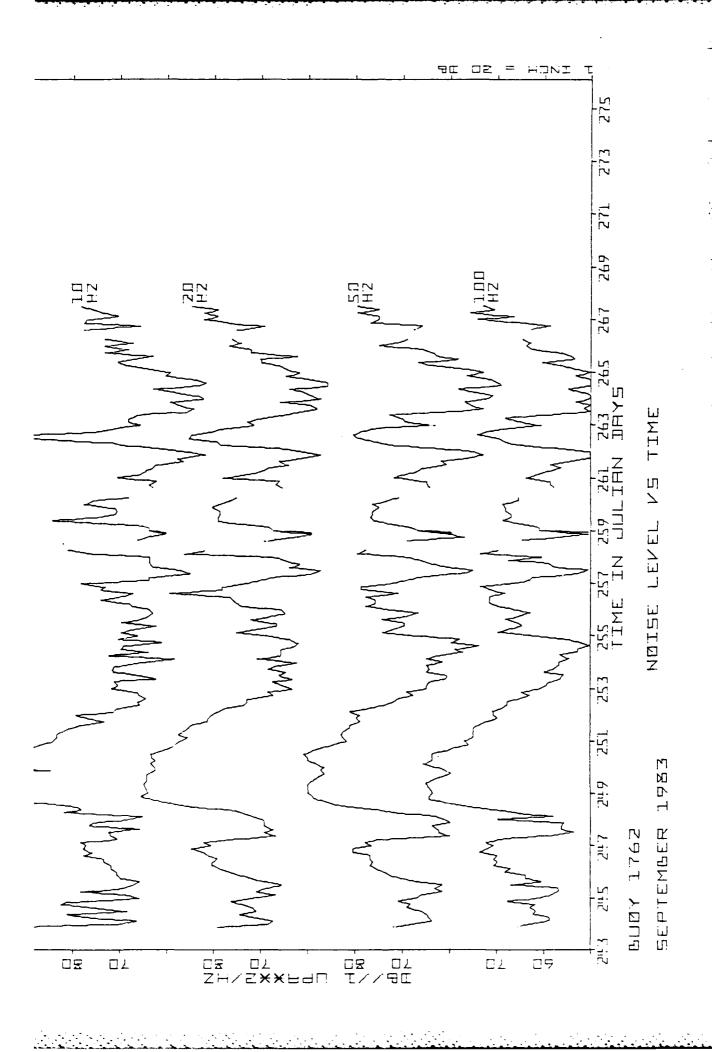
APPENDIX 2

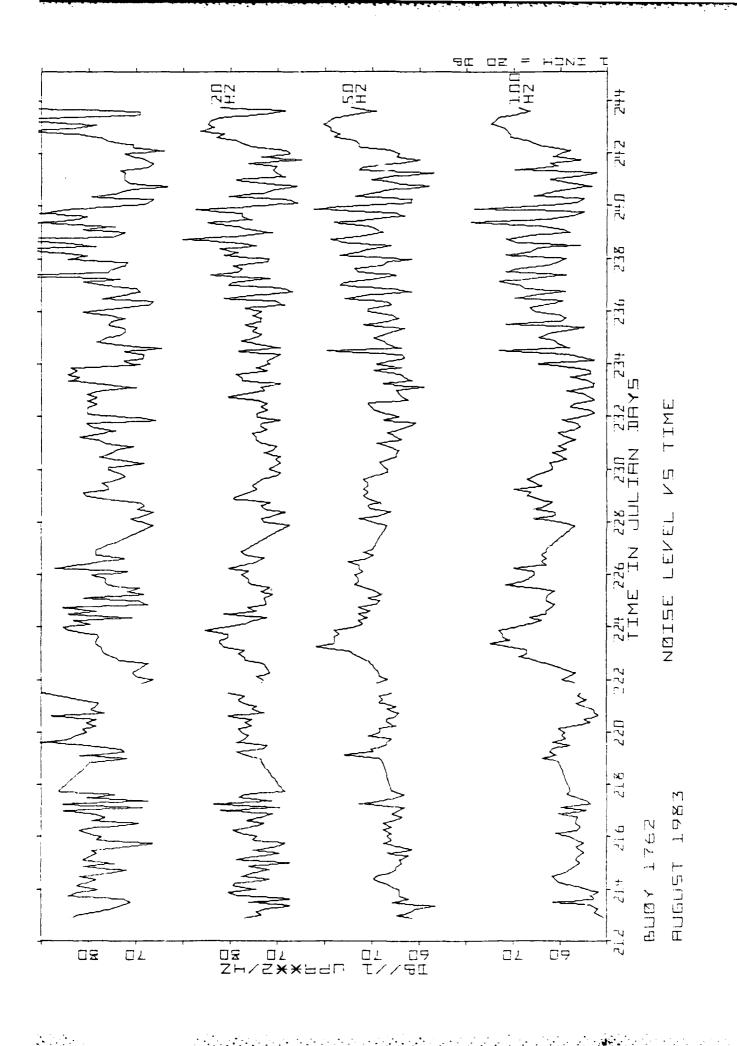
Date Buoy I.D. 1772

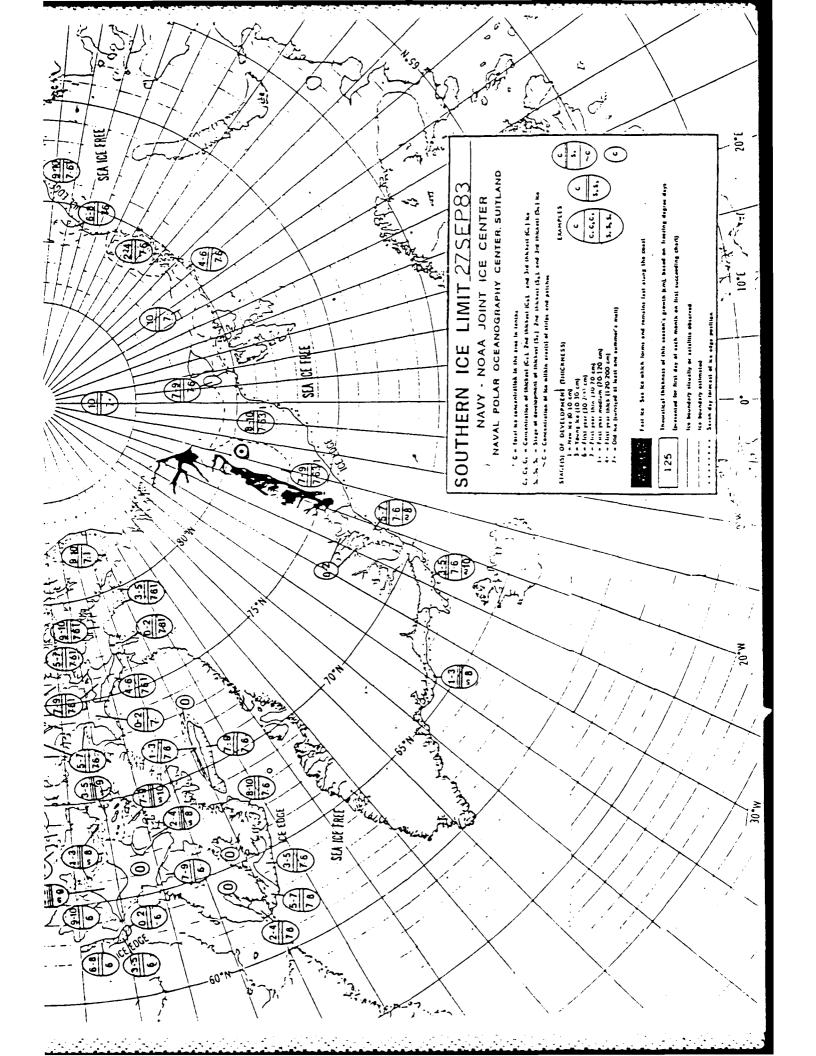
Life in Reporting Area 2 (West Greenland Sea)

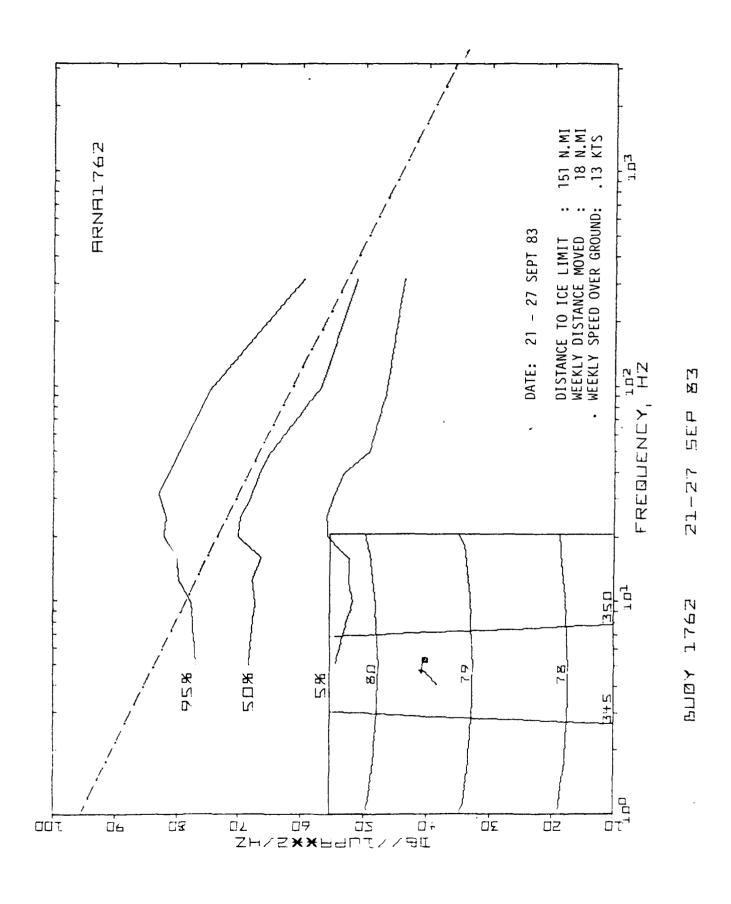
1 Oct 1981 - 19 Oct 1981

Type: SYNARGOS (5 - 1000 Hz)









MONTH: 21-27 SEP 83 BUOY: 1762

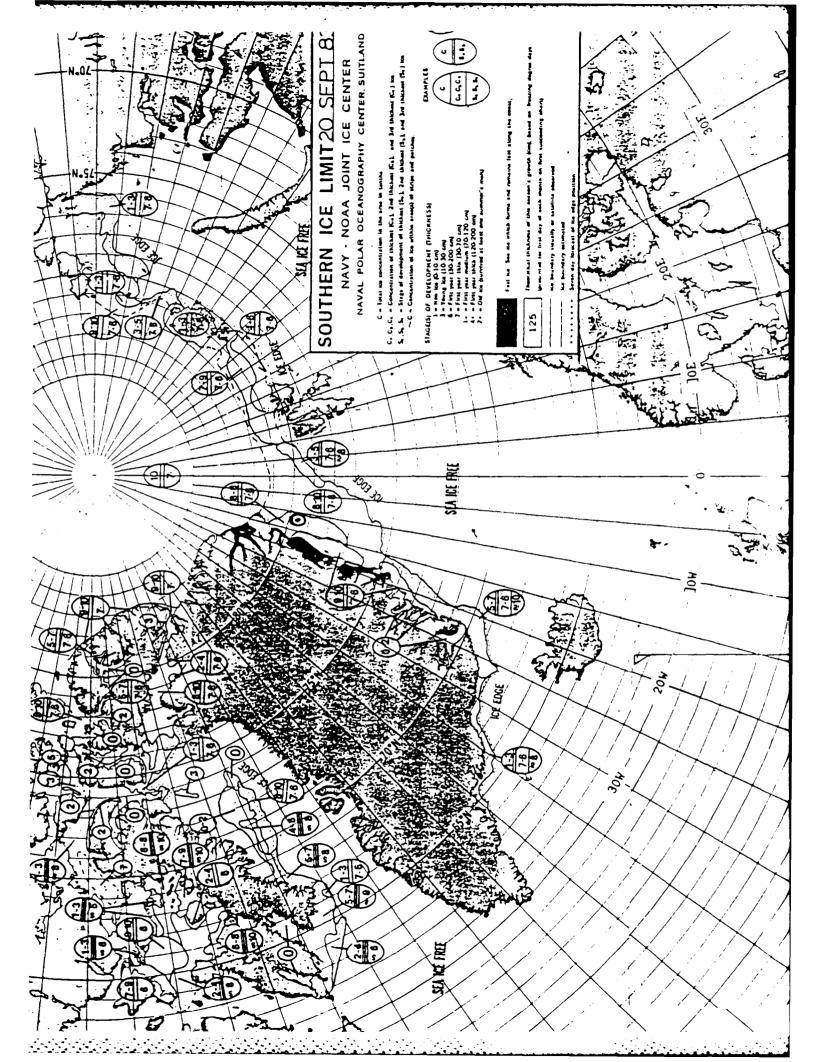
DUTPUT IN FILE ARNA1762

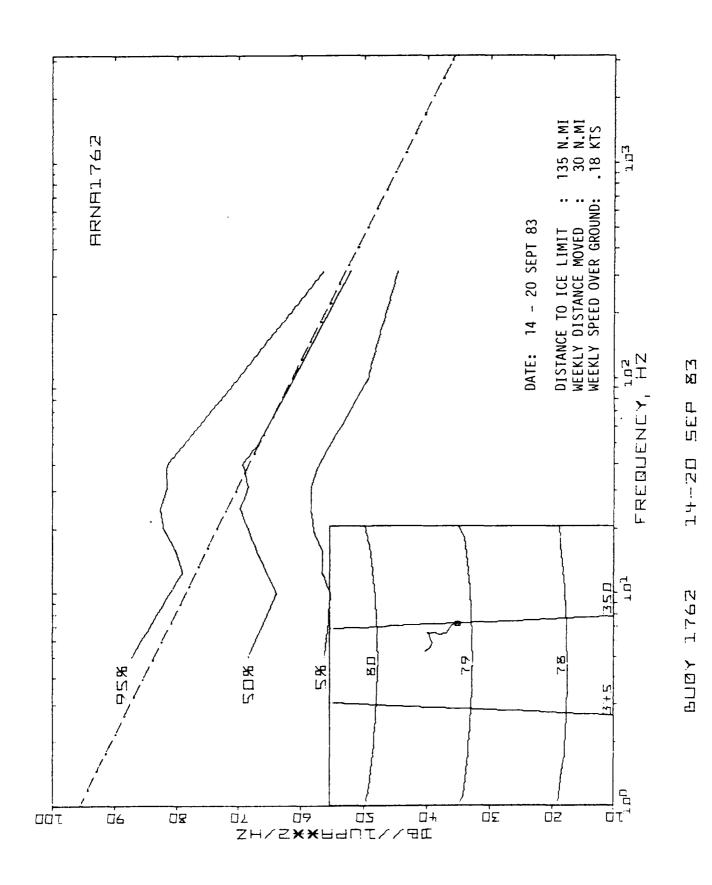
EAST: -15,980 -7.860 DISPLACEMENT (N. MI.): 17.808 NORTH: DIRECTION (TRUE): 243.839

THE NUMBER OF DATA SAMPLES IS 41

FREQUENCY		STD				Σ	MEDIAN					
ZH	AVG		NIE	7 9	10%	25%	20%	75%	206	796	MAX	z
ပ•်	66.7		54.6	54.6	55.4	56.7	68.4	74.4	75.3	76.9	77.6	27
10.0	66.3		51.7	51.7	(A)	59.4	67.3	73.3	77.2	77.8	78.0	27
12.5	67.3		.52.3	52.3	50°.	59.4	67.7	72.8	77.8	79.8	82.0	27
16.0	67.3		60 60 60	52.3	55.1	60°3	66.3	76.2	77.3	80.1	85.8	27
20.0	4.69		55.7	55,7	57.3	61.8	70.1	76.1	79.3	82.1	© 4. ©	27
25.0	68.7		0.00 0.00	000	57.6	6.09	69.7	75.8	6.67	81.8	01. 0	27
31.5	63.0	Ċ,	⊕ 4. 0	© 4. ©	្ មា	59.7	67.7	75.4	79.8		ტ. ტ.	27
40.0	66.99	ر. ال	000 1	53.1	ក ភូមិ ភូមិ	വ ന	66.5	75.3	79.2	81.4	81.4	27
50.0	63.8		49.0	49.0	50.3	0.0 0.0	64.8	70.8	75.0	79.6	79.6	27
100.0	0 0 0		46.2	46.2	47.0	51.0	56.7	63.8	70.7	74.2	75.8	27
315.0	S1.0		43.7	43.7	44.5	46.0	51.2	55.2	တ တ ကြ	60°	60.1	27
STOP												

. 2





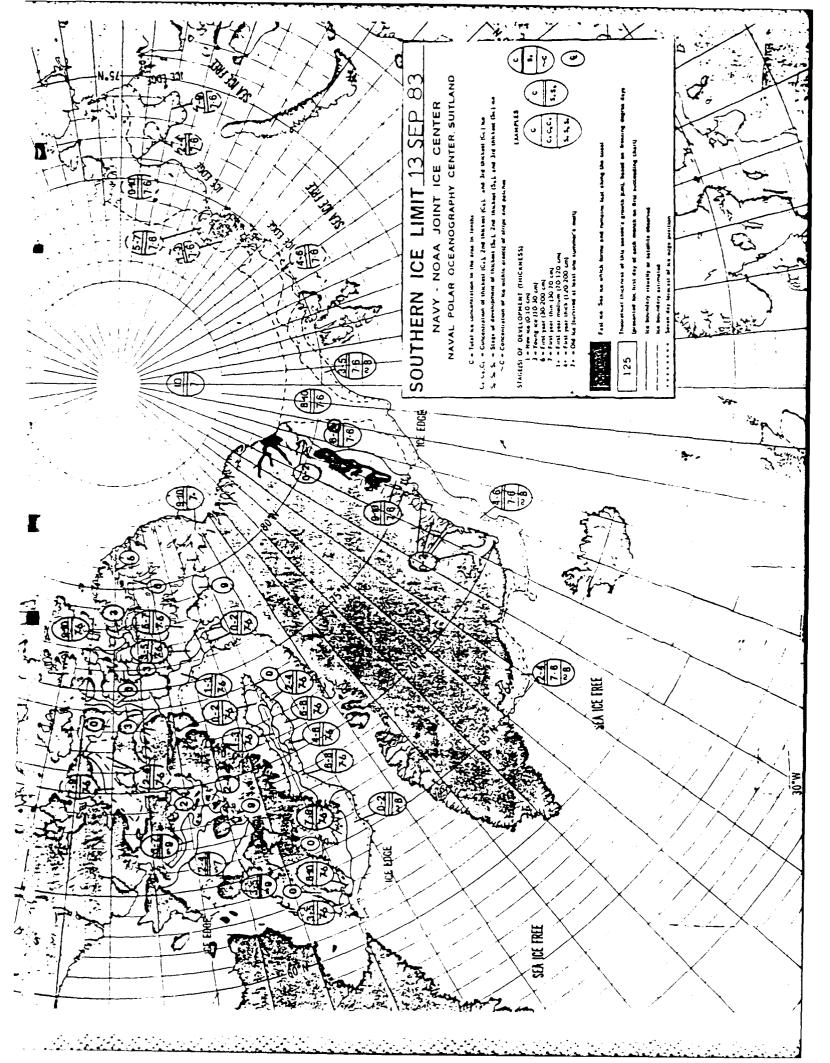
MONTH: 14-20 SEP 83 RUGY: 1762

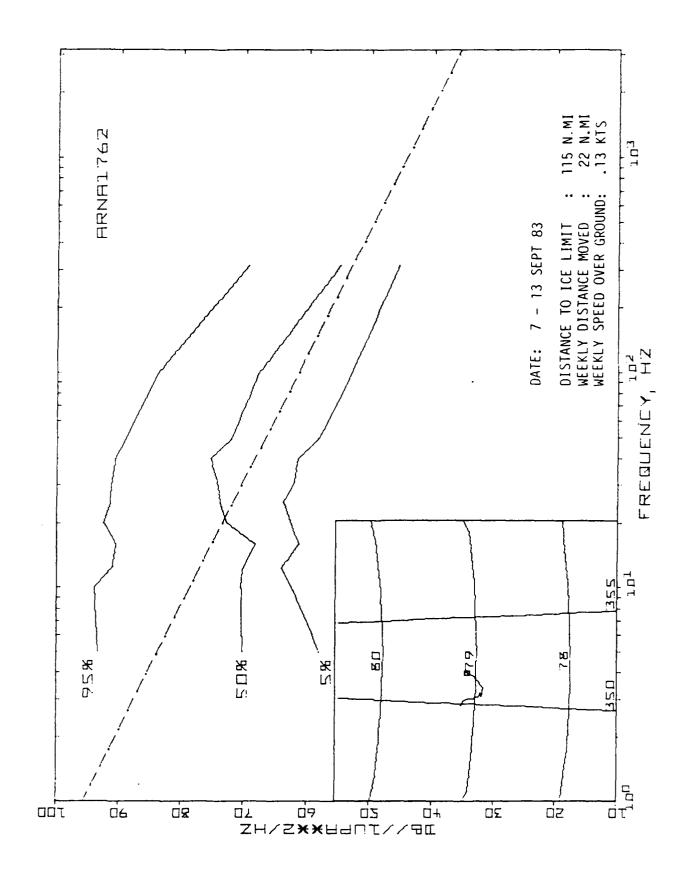
CUITFUL IN FILE ARNA1762

20.580 EAST: -17.475 NORTH: DISFLACEMENT (N. MI.): 26.999 DIRECTION (TRUE): 319.640

THE NUMBER OF DATA SAMPLES IS 58

	Z	Α. 4	E 45	54	1.	10	4.) [] 	7.5	<u> 7</u>	· V	r V	r ,
	MAX	0.46	91.4	87.4	84.4	36.4	0 50		24.5	30.4	74.0	, r	1.75
	756	87.0	81.1	78.9	80.1	82.1	82.6	81.4	81.4	7.9.19	0.0) ()))
	206	80.4	77.8	77.3	78.4	30.4	29.9	80.4	00	76.8	8,84) (i
	757	75.3	71.1	73.7	74.1	78.2	77.4	77.1	76.2	73.6	67.0	54.1	•
1EDIAN	50%	68.4	63.8	65.4	67.2	68.3	69.7	68.9	69.3	66.7	61.0	52.0	,
M	25%	66.2	62.2	63.3	62.5	64.0	64.4	63.3	62.3	61.5	56.2	47.8	
	10%	57.9	တ ဂျိ	57.2	57.2	0.00 0.00	59.7	59.0	57.8	55.7	7.64	45.0	
	2%	56.0	55.1	56.5	56.5	0.80	58.4	58.4	57.1	55.0	49.1	44.5	
	MIN	55.4	51.7	54.2	54.2	57.3	26.8	92.9	54.3	52.7	47.8	43.7	
STD	DEV	8.7	က တ	7.4	7.5		∞.∠	7.9	0. 0.	7.8	7.2	დ ტ	
	AVG	70.1	66.6	67.8	0.89	70.1	70.2	70.0	70.2	67.5	61.1	51.3	
FREGUENCY	ZH	ဝ ပ	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





BUOY 1762

7-13 SEP 83

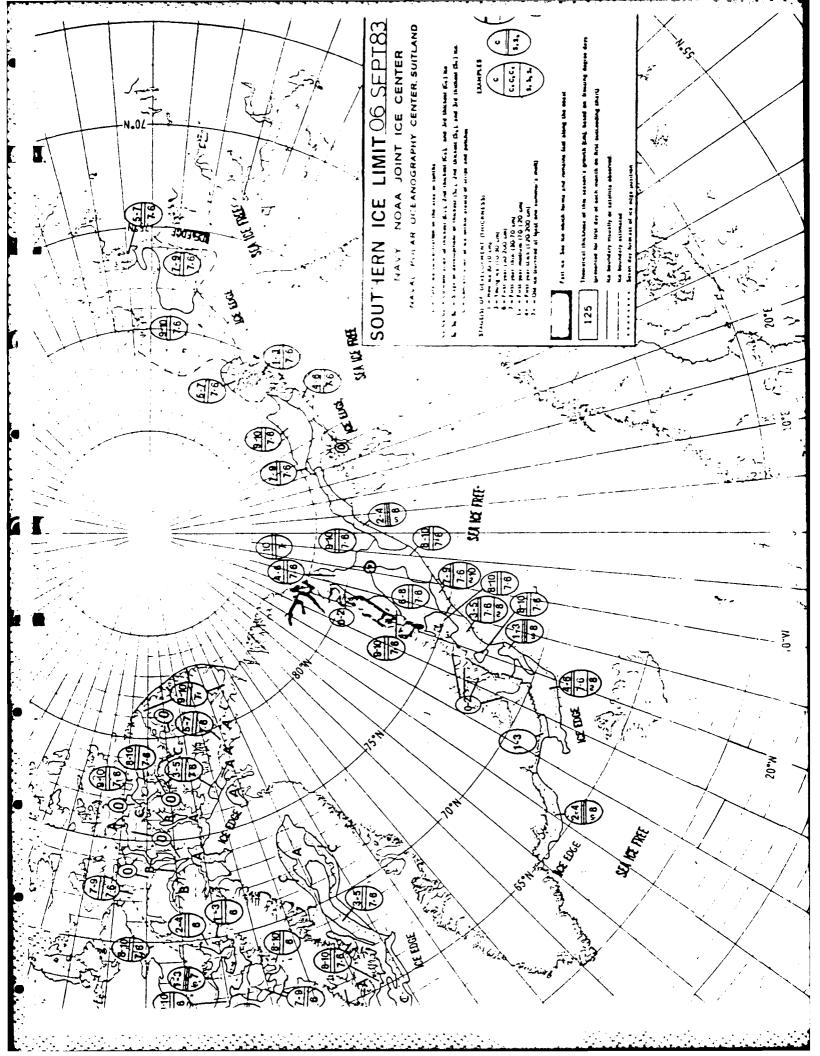
MONTH: 7-13 SEP 83 RUDY: 1762

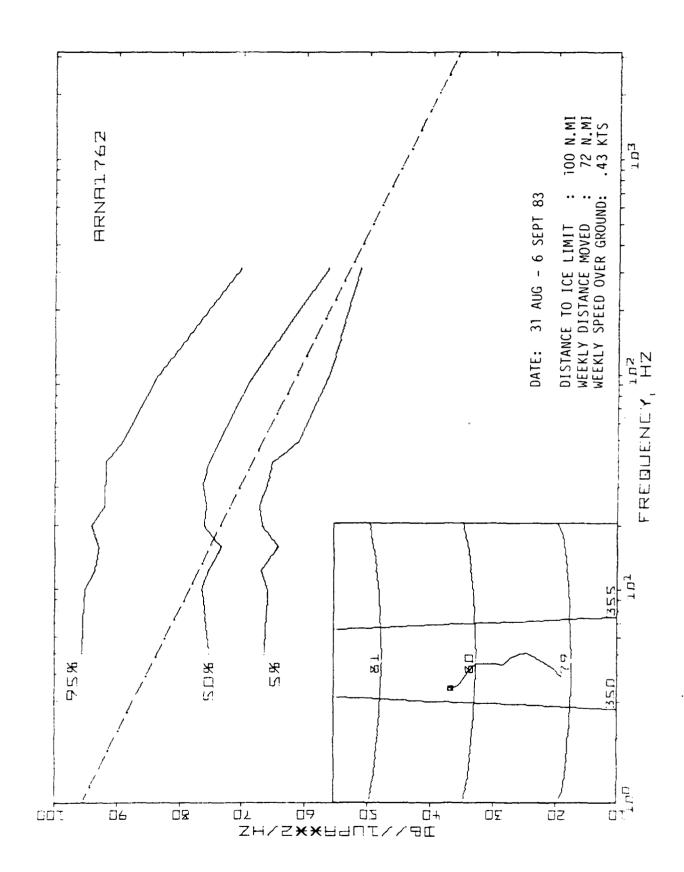
OUTPUT IN FILE ARNA1762

3.000 EAST: -21.076 DISPLACEMENT (N. MI.): 21.289 NORTH: DIRECTION (TRUE): 278.069

THE NUMBER OF DATA SAMPLES IS 54

FREQUENCY		STD				Σ	EDIAN					
ZH	AVG		NΙΣ	2%	10%	25%	20%		206	726	MAX	z
O. က	73.6		55.4	67.0	61.4	66.3	70.1		00 00 0	93.4	102.3	ю Ю
10.0	73.2		დ დე	62.2	60.09	65.7	70.4		89.2	93.9	100.6	90
12.5	73.2		59.4	64.0	64.6	66.8	70.0		88.7	90.9	\$0.00 \$1.00	90 0
16.0	71.9		က က က	61.2	62.5	64.1	68.1		86.9	90.4	92.9	9 10
20.0	75.2	10.1	61.8	62.6	64.0	6.09	72.7	84.8	9.68	92.4	0°.0	90
25.0	75.5		60.09	63.7	65.7	67.2	73.8		50.7	91.0	92.9	90 10
31.5	75.3		59.0	61.9	63,3	66.5	74.3		89.1	91.2	92.4	÷)
40.0	75.6		57.1	61.4	63.1	67.4	75.3		89.1	90.6	92.4	90
50.0	73.2		53.6	57.9	60.4	64.8	71.8		86.4	000	90.8	90
100.0	67.3		47.8	52.7	55.1	59.1	67.6		0.62	83.6	85.7	90
315.0	0.00		44.5	45.3	46.0	52.0	54.7		68.3	69.2	71.5	90 0
810P												





6104 1762 31 AUG-6

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BOOY ID 1772

OCTOBER 1981

DAY	GMT	POS	TI	TON		DAY	GMT	P09	SIT	LON	
274	1657	81.717	N	5.018	E	284	1655	80.383	Ν	0.014	E
275	1657	81.547	Ν	5.529	Ε	285	1643	80.143	Ν	1.094	W
276	1645	81.448	N	5.246	E.	286	1657	79.948	Ν	2.264	W
277	1657	81.197	N	4.424	Ε	287	1637	79.948	Ν	2.264	W
278	1643	81.013	N	3.876	F	288	1614	79.422	N	3.188	W
279	1620	80.937	Ν	3.544	Ε	289	1556	79.195	N	3.067	W
280	1559	80.891	N	3.335	E:	290	1657	79.052	Ν	2.948	W
281	1547	80.855	Ν	2.691	F.	291	1645	78.865	N	3.313	W
		80.839		1.673 0.933		292	1657	78.511	N	3.841	W

DATA BY MONTHS

05/18/82 15:31:49 GIVE MONTH (UP TO 9 CHARACTERS): OCT 1981 BUOY NUMBER: 1772

MONTH: OCT 1981 BUDY:

1772

OUTPUT IN FILE SYNA1772

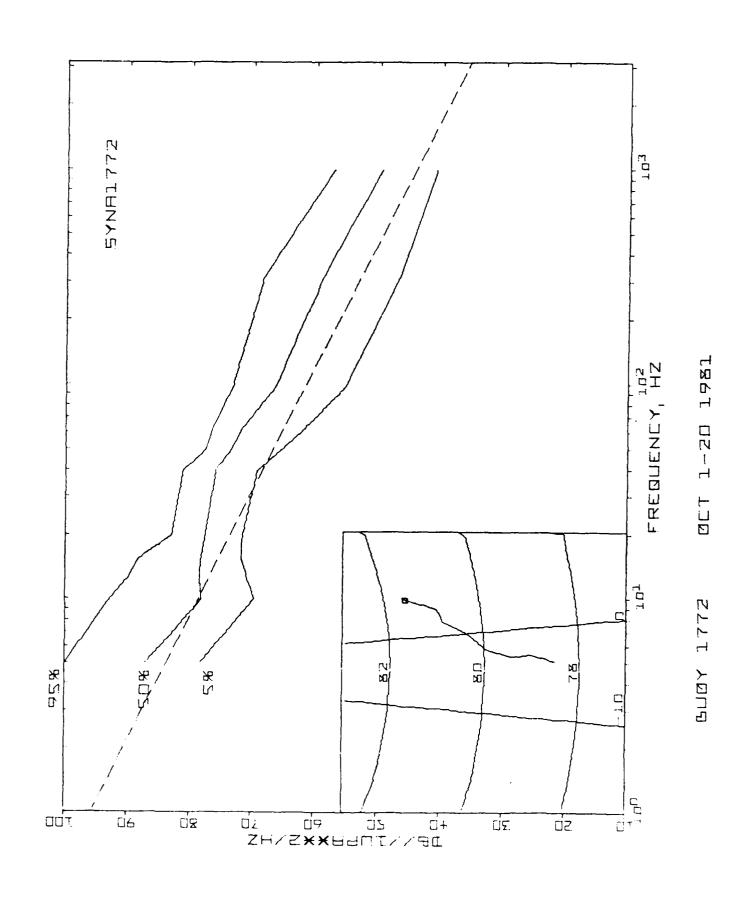
DISPLACEMENT (N. MI.): 211.957 NORTH: *-192.3 EAST: -91.409 DIRECTION (TRUE): 209.795

THE NUMBER OF DATA SAMPLES IS 152

	MAX	109.5	98.6	97.5	92.1	90.1	82.4	79.2	79.4	76.9	70.0	64.1	
		100.6		•									
	20%	98.3	90.1	83.7	84.9	82.0	80.3	77.3	75.6	70.9	65.6	55.0	
		92.3											
EDIAN	202	87.1	0.37	73.4	78.2	77.4	75.7	73.2	71.4	62.9	58.6	49.6	
¥	25%	83.2	73.9	74.3	74.0	74.3	73.5	71.2	68.2	63.1	54.5	45.1	
	10%	79.4	70.8	71.2	72.9	72.7	70.4	66.2	63.6	53.9	49.3	41.6	
	2%	78.3	69.5	70.6	71.5	71.4	69.0	65.2	61.3	54.3	46.5	40.9	
	MIM	73.3	67.0	63.3	6.8.3	68.2	67.4	62.0	56.1	43.6	42.4	38.1	
STD	DEV	7.1	7.6	6.2.	4.9	3.7	3.6	ი ი	4. E	2.5	رة. م	0.0	
		83.5	79.7	7.9.1	78.5	77.5	75.7	72.3	70.7	65.8	58.0	48.9	
FREQUENCY	HZ	5.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0	1000.0	STOP

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DATA BY WEEKS

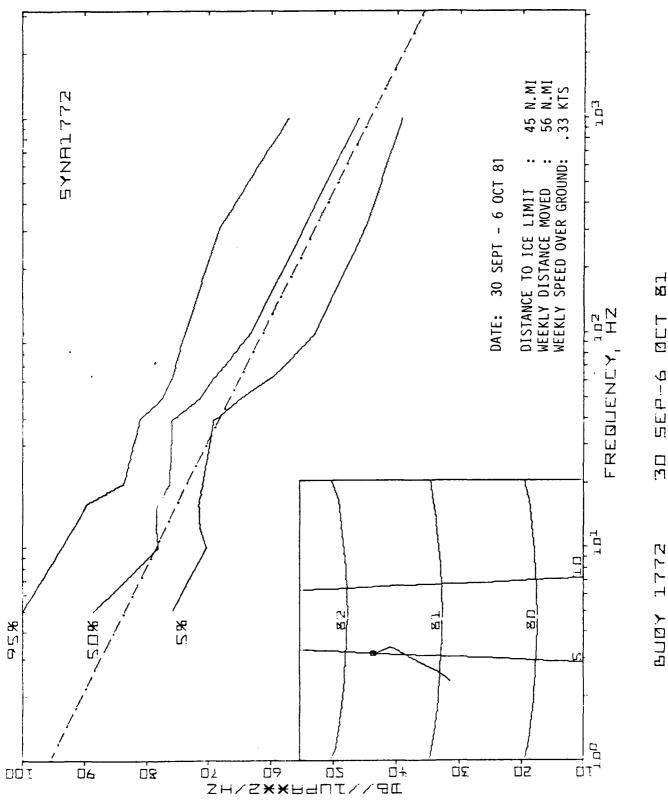
MONTH: 30 SEP-6 OCT 81 BUDY: 1772

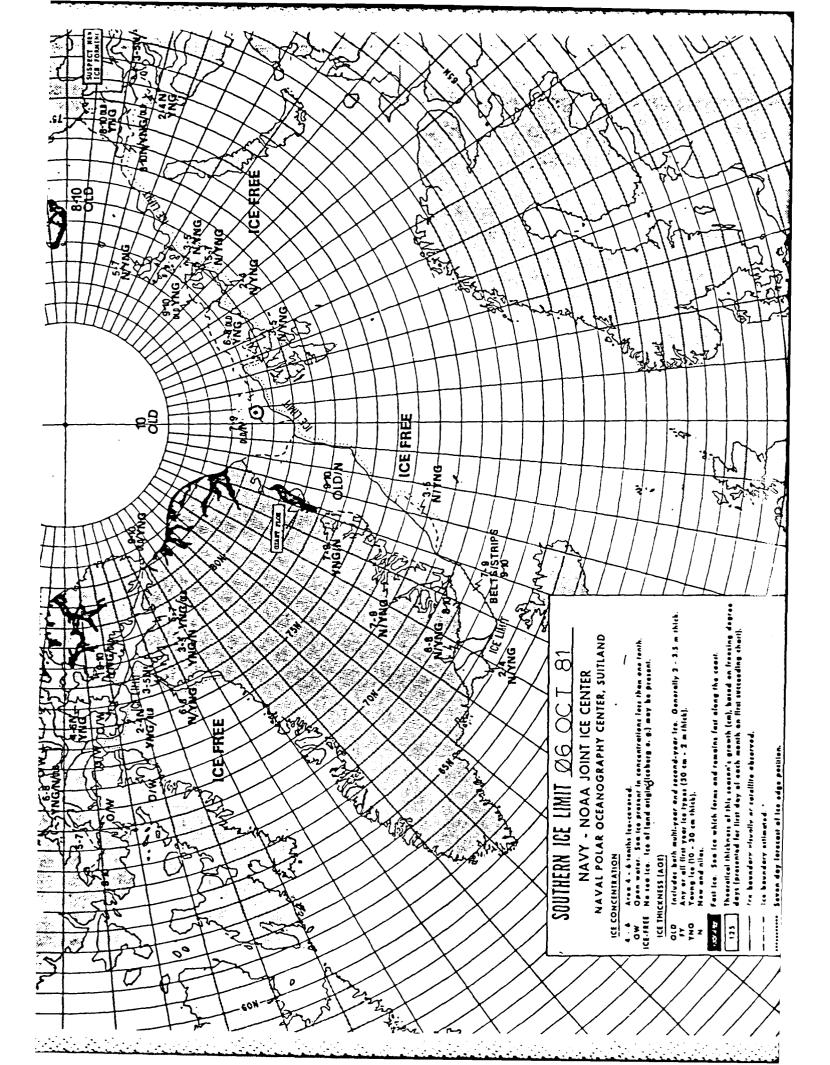
OUTPUT IN FILE SYNA1772

DISPLACEMENT (N. MI.): 55.868 NORTH: -51.720 EAST: -21.126 DIRECTION (TRUE): 202.240

THE NUMBER OF DATA SAMPLES IS 56

	z	9 10	95	i kiji Mi	99	9 9	10 20	99	92	99	¥.	90	
	MAX	109.5	9.66	5.76	92.1	90.1	82.4	79.2	77.5	76.4	70.0	60.4	
	796	104.4	93.6	91.0	89.6	89°0	81.1	77.3	75.6	73.7	68.1	57.2	
	206	101.3	91.1	0.00 0.00	88.0	82.8	79.5	76.1	75.0	70.9	65.6	56.1	
	75%	96.4	86.0	ທ. ທິ	82.0	80.3	77.6	74.0	72.5	66.8	59.6	50.1	
YEDIAN	50%	88.6	78.0	78.4	78.2	76.0	75.7	71.2	68.9	63.1	54.5	46.0	
Σ	25%	82.5	75.5	74.3	75.1	74.3	71.5	67.1	63.6	0 0 0	49.3	41.6	
	10%	80.3	71.4	72.4	72.9	72.1	69.0	65.2	61.3	6. 69.	46.5	40.9	
	2%	75.8	70.2	71.2	71.5	70.7	69.0	64.6	59.4	52.8	44.7	39.1	
STD	ΝIΝ	73.3	69.5	6.69	6.69	68.2	69.0	62.0	56.1	43.6	42.4	33.1	
	DEV	0 0	7.8	% .%	5.6	4. 5	დ დ	4.3	က က	6.2	7.1	6.1	
	AVG	89.6	80.8	80.1	79.1	77.3	74.8	71.0	68.2	63.0	55.4	47.3	
FREQUENCY	HZ	o က်	10.0	12.5	16.0	20.0	40.0	50.0	63.0	100.0	315.0	1000.0	STOP





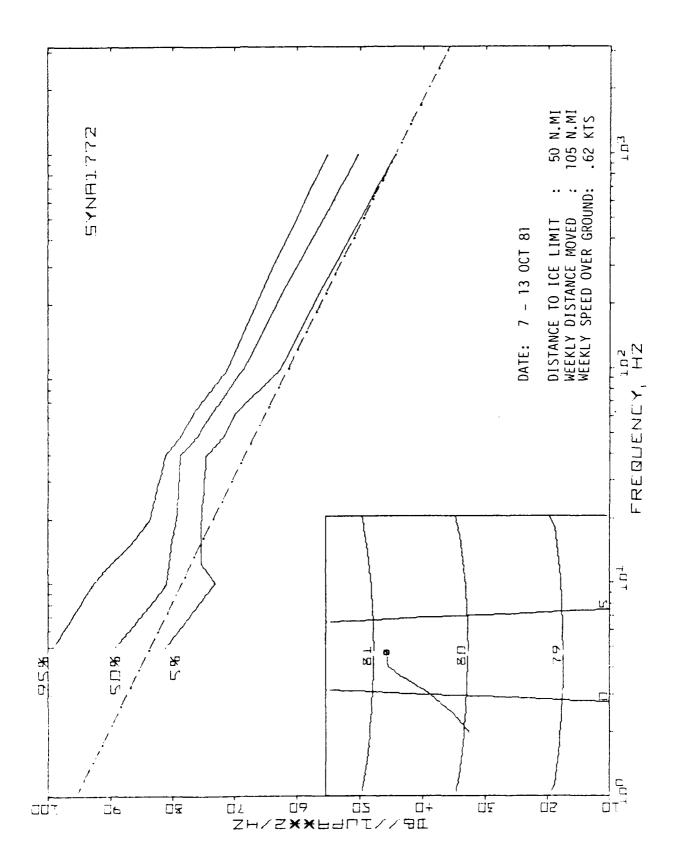
MONTH: 7-13 OCT 81 BUDY: 1772

OUTPUT IN FILE SYNA1772

DISPLACEMENT (N. MI.): 105.140 NORTH: -85.980 EAST: -60.514 DIRECTION (TRUE): 215.162

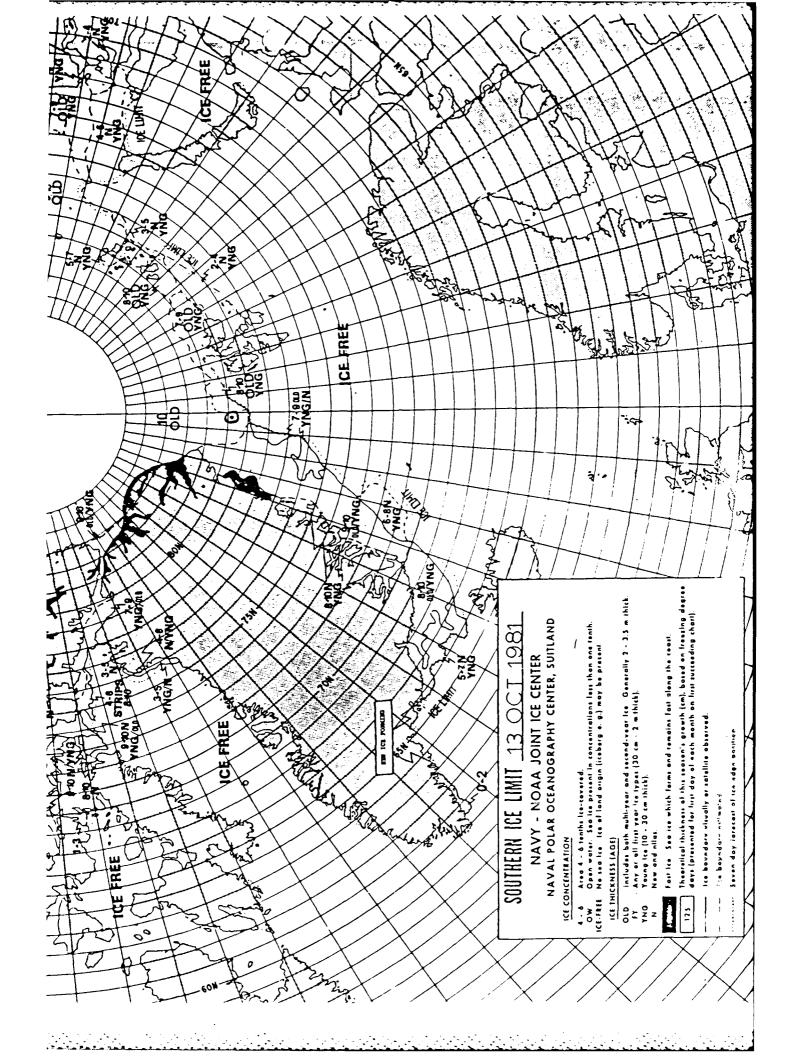
THE NUMBER OF DATA SAMPLES IS 56

	Z	ئا)) / U		Ç.	ر الله ا	9) J) <u>V</u>	. V	i j
		-	•	(C)									
	756	6.66	8.26	00	86.1	ന ന	81.1	78.3	76.3	70.9	63.4	10°0	! ! !
	706	00	20.1	87.2	64.9	82.0	80.8	77.3	75.6	70.9	62.1	6.40	 - -
	75%	93.9	8,00	ର . ବ	82.8	81.2	79.5	76.7	75.0	69.7	61.3	51.1	
MEDIAN	50%	89.2	80.0	80.4	80.1	79.3	78.6	75.4	73.4	48.4	59.6	50.1	
Σ	25%	85.4	6.91	77.9	78.2	77.4	75.7	73.2	70.9	62.99	58.6	48.3	
	10%	83.2	76.2	75.9	76.0	76.8	74.3	71.2	70.3	64.3	54.5	46.0	
	2%	31.1	73.0	75.2	75.1	75.2	74.3	71.2	69.6	62.4	53.6	44.1	
	ΣIN	78.3	72.0	73.4	73.5	73.2	74.3	70.7	67.3	61.6	53.6	43.5	
STD .	DEV	୬ ଜ	6.3	4.7	က က	2.6	ტ ტ	5°9	2.3	2.6	0.0	3,2	
	_	-		81.4				•		-			
FREGUENCY	ZH	၀. အ	10.0	12.5	16.0	20.0	40.0	20.0	63.0	100.0	315.0	1000.0	STOP



BUBY 1772

7-13 DCT



MONTH: 14-20 OCT 81 BUDY: 1772

CUTPUT IN FILE SYNA1772

-7,591 DISPLACEMENT (N. MI.): 55.184 NORTH: -54.660 EAST: DIRECTION (TRUE): 187.925

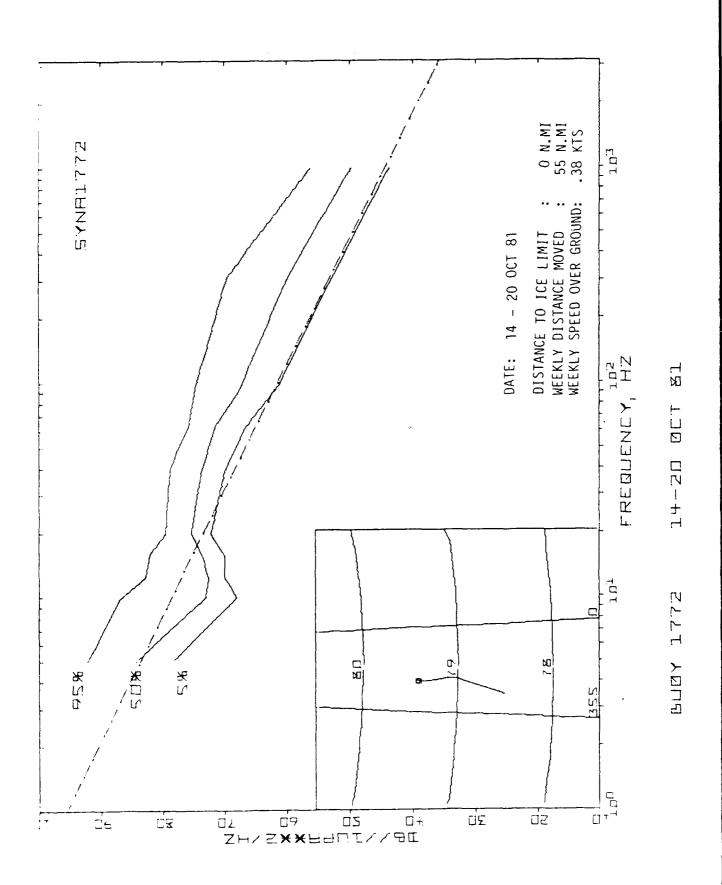
THE NUMBER OF DATA SAMPLES IS 38

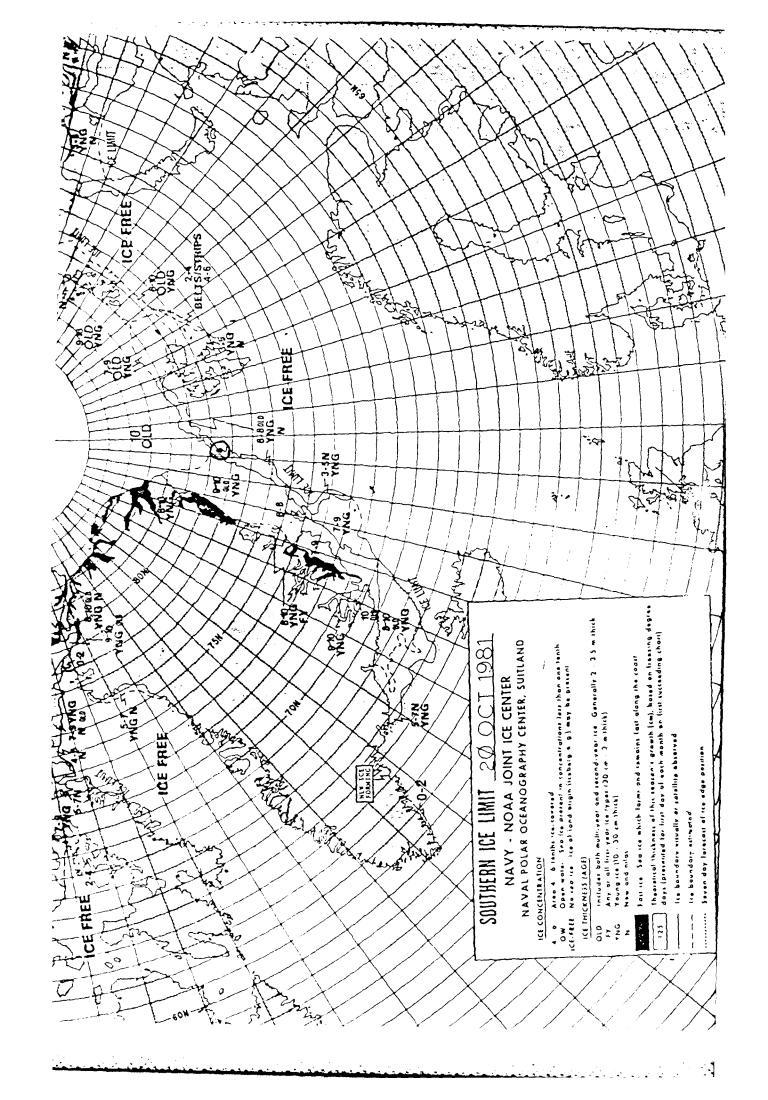
	z	00 (1)	φ (2)	00 (*)	(O)	<u>e</u>	Ø Ø	(O) (O)	(O (O	(O (O	(O) (O)	œ M	
	MAX	က် လ	9.66	0 0 0	84.3	81.2	81.1	78.3	79.4	76.9	70.0	64.1	
	726	92.3	8 . 98	82.6	82.0	79.3	78.6	77.3	75.6	74.4	69.4	56.1	
	706	90.4	81.6	80.4	78.9	79.3	77.6	76.1	75.0	72.8	68.1	0.00	
	75%	87.1	76.2	76.6	77.6	76.3	76.4	74.8	73.4	70.9	64.0	53.6	
MEDIAN	20%	84,4	73.0	72.4	73.5	75.2	73.5	72.3	71.4	66.8	59.6	49.6	
Σ	25%	81.1	70.8	71.2	72.2	73,2	71.5	70.7	68.9	64.3	56.1	46.0	
	10%	78.3	67.5	70.6	71.5	72.7	70.4	68.7	67.3	61.6	52.5	44.1	
	2%	78.3	67.9	6.69	6.69	72.1	69.7	68.0	66.4	8.09	825 83	43.5	
	NIM	77.8	67.0	6.69	6.69	71.4	67.4	0.89	66.4	000°	52.0	41.6	
stb	DEV	4.6	ه. ه	4.4	3,7	2.4	0 0	2.8	ο. Θ	6,4	0. 4	4	
	AVG	84.8	74.9	74.5	74.9	75.5	74.0	72.6	71.4	67.5	60.2	49.7	
FREQUENCY	ZH	ဝ ့	10.0	12.5	16.0	20.0	40.0	50.0	63.0	100.0	315.0	1000.0	STOP

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1773 AGN1H: DEC 1981 BUOY: 1773

GUIPUT IN FILE ARNA1773

DISPLACEMENT (N. MI.): 213.688 NORTH: *-213.7 EAST: -13.064 DIRECTION (TRUE): 184.139

THE NUMBER OF DATA SAMPLES IS 242

	MAX		3.70 707		ジ・ハ	0.101		102.0	0.101		٠. د. د.		74.4	- C		C C	,	7. 77	•
					71./														
	,. 0/5	• > \	O.	, 1	87.8	0.00	0 0 0	00 20 00	0.00	00	0000) 	00.00	0	5	77 0	•	2 17	3.0
	75.7	•	7 40	•	87.8	0.00	人・ かり	0. 30.	0 70	0	Z. V3		93.0 63.0	0	× .00	101	1.4.	, , ,	7.40
HEDIUN		200	0 00	0	79.7		31.1	90 00		n N	7		7.67	:	10.1		7.	3	ים
=		' 0'	C. 31	9	76.9	9	n.	0,08) ()	0 1.1	× • / /	6.91		74.5	•	000	1	۵·/۵
	****	107	•	71.3	74.4	!	\.o.	77.1		//.1		· · / /	74.4		72.6		V + V	1	ກ ກີ
	į	\ <u>`</u>	0	7	71.9		74.4	75, 7		75.7		1.4/	70.9		70.1	. 1	63.69	1	54.3
	:	Ζ		64.7	4.9.4	•	70.9	2 67		71.1		ブ・ へい	8 77		6.4.7		200	,	52.8
or the	2	ک اینا -		6.9	4)	ر. در	ľ		ر ا) (2.5	Z Y	•	(°)	•	ις 4		4.9
		200	,	0.00 4.00	7 00		82.1		グ・ブ	بر بن) :	a a	0 00	7.00	78.0	•	71.6	•	60.09
V-11A TO TOTAL		117		O,			12.5		0.0	0.00	٥٠. ١	40 . 0	0 0 0	0.00	0 67	7	0 001) •) · ·	320.0

DATA BY MONTHS

MAY 1982

ΓΙΑΥ	GMT	POS	11	T CON		DAY	GMT	PCC	3 T 3	rion	
121		60.013				128	1342	59.885	11	44.171	W
121	1305	60.013	Ν	44.153	W	128				44.154	
121	1937	59.967	Ν	44.007	W	129	748	59.903	Ν	44.156	M
122	733	59.903	Ν	44.115	W	129	1313	59,903	Ν	44.156	W
122	1245	59.889	N	44.137	W	129	1948	59.903	Ν	44.156	W
122	1915	59.889	Ν	44.137	W	130	736	59.917	Ν	44.159	W
123	012	59.889	11	44.137	W	130	1254	59.917	N	44.159	W
123	721	59.886	Ν	44.180	W	130	1928	59.917	Ν	44.159	W
123	1346	59.887	Ν	44.172	W	131	725	59.929	N	44.153	W
123	1851	59.887	Ν	44.172	W	131	1232	59.932	N	44.151	W
124	709	59.881	Ν	44.146	W	131	1905	59.932	Ν	44.151	W
124	1341	59.881	Ν	44.146	W	132	711	59.952	Ν	44.151	W
124	1843	59.855	Ν	44.248	W	. 132	1347	59.953	N	44.153	W
125	658	59.855	Ν	44.248	W	132	1840	59,950	Ν	44.153	W
125	1327	59.855	Ν	44.248	W	133	700	59.950	N	44.153	W
125	1942	59,855	Ν	44.248	W	133	1335	59.950	Ν	44.153	W
126	645	59.855	Ν	44.248	W	133	1817	59.950	N	44.153	W
126	1315	59,877	Ν	44.194	W	134	651	59.950	Ν	44.153	W
126	1919	59.881	N	44.197	W	134	1322	59.950	Ν	44.153	W
127	633	59.881	Ν	44.194	W	134	1933	59,950	Ν	44.153	W
127	1302	59.869	Ν	44.221	W	135	639	59.950	N	44.153	W
127	1854	59.869	N	44.221	W	135	1310	59.950	Ν	44.153	W
127	2355	59.877	Ν	44.182	W	1.35	1910	59.950	N	44.153	W
128	622	59.877	Ν	44.182	W						

APRJL 1982

DAY GMT POSITION	ЛАY	GMT	POSITION
91 102 62.774 N 40.892 W 91 657 62.625 N 41.198 W	101		59.741 N 43.776 W
91 1333 62.625 N 41.198 W			
91 1941 62.560 N 41.195 W	107		59.831 N 44.602 W
			59.835 N 44.492 W
92 040 62.560 N 41.185 W 92 736 62.560 N 41.185 W	102		59.835 N 44.492 W 59.384 N 44.499 W
92 1320 62.191 N 41.388 W	102 102		59.900 N 44.479 W
92 1917 62.037 N 41.473 W			59.900 N 44.470 W
93 017 62.037 N 41.473 W	103		59.908 N 44.470 W
93 633 61.870 N 41.541 W			59.907 N 44.462 W
93 1309 61.793 N 41.620 W	103		59.909 N 44.419 W
93 1943 61.786 N 41.621 W	104		59.917 N 44.404 W
93 2354 61.621 N 41.693 W			59.930 N 44.359 W
94 622 61.621 N 41.693 W			59.979 N 44.286 W
94 1337 61.477 N 41.695 W	105		59.979 N 44.286 W
94 1939 61.365 N 41.758 W	105		60.035 N 44.165 W
95 109 61.030 N 41.920 W			60.042 N 44.192 W
95 748 60,993 N 41,943 W			60.042 N 44.192 W
95 1315 60.918 N 42.033 W			60.042 N 44.192 W
95 1947 60.874 N 42.179 W	106	721	60.063 N 44.204 W
96 045 60.874 N 42.179 W	106	1348	60.062 N 44.227 W
96 739 60.874 N 42.179 W	106	1856	60.054 N 44.196 W
96 1252 60.609.N 42.569 W	107	709	60.035 N 44.187 W
96 1924 60.612 N 42.566 W	107	1344	60.033 N 44.166 W
97 023 60.612 N 42.566 W	107	1845	60.036 N 44.166 W
97 727 60.425 N 42.557 W	108	656	60.036 N 44.166 W
97 1229 60.285 N 42.594 W	108	1332	60.039 N 44.172 W
97 1904 60.285 N 42.594 W	108	1943	60.040 N 44.173 W
98 000 60.285 N 42.594 W			60.040 N 44.178 W
98 716 60.217 N 42.626 W			60.026 N 44.171 W
98 1348 60.190 N 42.669 W			60.024 N 44.174 W
93 1852 60.164 N 42.700 W	110		60.024 N 44.174 W
99 704 60.098 N 42.804 W	110		60.024 N 44.174 W
99 1338 60.055 N 42.914 W			59,931 N 44.000 W
99 1948 60.028 N 42.971 W			59.972 N 44.020 W
100 050 60.028 N 42.971 W	111		59.972 N 44.020 W
100 652 60.028 N 42.971 W			59.973 N 44.013 W
100 1325 59.746 N 43.715 W			59.947 N 44.032 W
100 1930 59.741 N 43.776 W	112		59.945 N 44.029 W
101 028 59.741 N 43.776 W	112 1	1238 5	59.945 N 44.029 W

MARCH 1982

DAY	GMT	POSITION		DAY	GMT	PQ8	SITION
80	1224	65.246 N 37.832	W	85	1946	63.837	N 39.286 W
80	1906	65.262 N 37.822	W	86	118	63.902	N 39.111 W
80	2358	65.262 N 37.822	W	86	748	63,902	N 39.111 W
31	714	65.146 N 38.144	W	86	1324	63.834	N 39.176 W
81	1348	45.077 N 38.277	W	86	1948	63.837	N 39.286 W
81	1853	65.031 N 38.363	W	87	056	63,834	N 39.336 W
82	113	45.031 N 38.343	W	87	744	63.838	N 39.365 W
82	702	64.873 N 38.590	W	87	1301	63.788	N 39,649 W
82	1334	64.868 N 38.596	W	87	1934	63.788	N 39.649 W
82	1947	64.733 N 38.606	W	88	034	63.788	N 39.649 W
83	051	64.733 N 38.606	W	88	731	63.673	N 39.902 W
83	743	64.733 N 38.606	W	88	1238	63,605	N 39.937 W
83	1327	64.516 N 38.495	W	88	1911	43.395	N 40.144 W
83	1928	64.465 N 38.491	W	89	011	63.395	N 40.144 W
84	027	64.465 N 38.491	W	89	720	63.194	N 40.331 W
84	721	64.465 N 38.491	W	89	1348	63.109	N 40.401 W
84	1316	64.237 N 38.650	W	89	1858	63.017	N 40.426 W
84	1904	64,205 N 38.747	W	90	709	62.885	N 40.525 W
85	004	64.205 N 38.747	W	90	1344	62.826	N 40.696 W
85	627	64.205 N 38.747	W	90	1847	62.774	N 40.892 W
85		44.034 N 39.019	W	•			
35	627	64.205 N 38.747	W	90	-		

MARCH 1982

DAY	GMT	POS	ITION		DΑΥ	GMT	PO:	SITION
60	108	68,421	N 25.196	ы	70	054	56,761	N 31.661 W
60			V 25.266		70			N 31.658 W
		68.317			70			N 31.772 W
60			V 25.571		70			N 31.910 W
61			N 25.786		71		66.605	
61			N 25.878		71		66.600	
61		48.038 I			71			N 32.164 W
61	1941	68.038			71	1912	66.632	N 32.297 W
62	_			W	72	008	66.632	N 32.297 W
62	737	67.920 1	1 26.290	W	72	719	66.635	N 32.424 W
62	1242	67.902 1	V 26.393	W	72	1348	66.628	N 32.610 W
62	1917	67.902 1	1 26.393	W	72	1859	66.521	N 32,923 W
63	017	67.872 I	V 26.524	W	73	707	66.521	N 32.923 W
63	719	67.846 1	N 26.607	W				N 33.258 W
		67.856			73			N 33.614 W
63	1903	67.856	N 26.617	W	74	144	66.321	N 33.614 W
63	2354	67.856 1	N 26.617	W	74		66.289	
64	712	67.683 1	1 27.364	W				N 33.692 W
64	1348	67.636 1	N 27.522	W	74			N 33.694 W
64	1853	67.647	1 27.520	W	75			N 33.694 W
65			₹ 27.696		75		66.178	
65	701	67.498 1	N 27.682	W	75			N 33.987 W
65	1339	67.461	1 27.686	W	75		66.140	
65			N 27.698		76		66.140	
66			N 27.698		76			N 34.116 W
66			1 28.405					N 34.432 W
			N 28.376					N 34.438 W
			N 28.405		77			N 34.438 W
67			N 28.405		77			N 34.983 W
67		67.233			77			N 35.013 W
67		67.161		W	73 70			N 35.199 W
67			1 29.492		78 70			N 35.250 W
68			N 29.492					N 35.404 W
68			1 29.492		78			N 35.649 W
68			1 30,497		79			N 35.649 W
63		67.080 N		W	79		65.519	
69		67.080 1			79		65.429	
69		67.080 N		W	79		65.379	
69			1 31,349		90			N 36.685 W
69	1948	66.924	N 31.351	W	80	11.6	oo.∠∂5	N 37.035 W

BUOY ID 1773

FEBRUARY 1982

DAY	GMT	POSITION		DAY	GMT	PO:	SITION
51	1947	70.968 N 21.124	W	56	148	70.185	N 21.404 W
52	114	70.946 N 21.088	W	56	705	69.998	N 21.635 W
52	748	70.927 N 21.042	W	56	1345	69.913	N 21.680 W
52	1312	70.883 N 21.113	W	56	1948	69.904	N 21.710 W
52	1948	70.883 N 21.113	W	57	057	69:665	N 21.931 W
53	051	70.767 N 21.145	W	57	748	69.536	N 22.167 W
53	748	70.704 N 21.174	W	57	1333	69.536	N 22.168 W
53	1250	70.703 N 21.165	W	57	1934	69.536	N 22.168 W
53	1924	70,617 N 21,252	W	58	133	69.536	N 22.168 W
54	035	70.523 N 21.301	W	58	731	69.153	N 22.968 W
54	728	70.520 N 21.298	W	58	1321	68.951	N 23.635 W
54	1223	70.429 N 21.356	W	58	1911	68.953	N 23.634 W
54	1911	70.446 N 21.381	W	59	120	68.787	N 24.248 W
55		70.337 N 21.392		59	707	68.787	N 24.248 W
55		70.342 N 21.376					N 24.846 W
		70.306 N 21.344	-	•			N 24.861 W
		70.185 N 21.404			,		

DAY	GMT	POSI	TION		DAY	GMT	POS	RITION
32	137	73.982 N	17.113	W	42	148	72.220	N 20.223 W
32	734	73.933 N	17.167	W	42	659		N 20.282 W
32	1325	73.874 N	17.311	W	42	1341	72.193	N 20.282 W
32	1915	73.772 N	17.416	W	42	1947	72.156	N 20.465 W
33	125	73.772 N	17.416	W	43	125	72.066	N 20.488 W
33	710	73.561 N	17.677	W	43	748	72,069	N 20.482 W
33	1348	73.473 N	17.846	W	43	1322	72.066	N 20.488 W
33	1852	73.473 N	17.846	W	43			N 20.551 W
34	134	73.473 N			44			N 20.544 W
34	748	73.243 N	18.223	W	44			N 20.543 W
34	1330	73.243 N			44			N 20.585 W
34	1947				44			N 20.535 W
35		73.144 N			45			N 20.718 W
35		73.144 N			45			N 20.716 W
35		73.110 N			45			N 20.753 W
35		73.054 N			45			N 20.753 W
36		72.984 N			46			N 20.785 W
36					46			N 20.828 W
36		72.997 N			46.			N 20.851 W
36		72.953 N			46			N 20.877 W
37		72.943 N			47			N 20.877 W
37		72.941 N			47	131		N 20.912 W
37		72.907 N			47			N 20.902 W
37		72.907 N			47			N 20.938 W
38		72.870 N			47			N 20.968 W
38		72.870 N			48			N 20.976 W
38		72.812 N			48			N 20.984 W
33		72.811 N			48			N 20.994 W N 21.018 W
39 39		72.745 N 72.748 N			48 49			N 21.018 W
39		72.631 N			49 49			N 21.046 W
39		72.612 N			49			N 21.066 W
40		72.483 N			49			N 21.066 W
40		72.483 N			50 50			N 21.066 W
40		72.485 N			50 50		71.311	
40		72.400 N			50 50		71.283	
41	131				50 50		71.284	
41		72.263 N			51		71.284	
41		72.254 N			51			N 21.082 W
41		72.234 N			51			N 21.097 W
· -								• • • • • •

JANUARY 1982

DAY	GMT	POSITION		DAY	GMT	P09	ITION
21	134	75.832 N 13.557	W	26	1948	74.821	N 15.398 W
21	712	75.803 N 13.581	W	27	055	74.796	N 15.447 W
21	1348	75.782 N 13.611	W	27	748	74.797	N 15.426 W
21	1859	75.722 N 13.751	W	27	1253	74.761	N 15.521 W
22	148	75.589 N 13.880	W	27	1931	74.742	N 15.553 W
22	700	75.580 N 13.876	· W	28	040	74.659	N 15.743 W
22	1336	75.540 N 13.900	W	28	731	74.609	N 15.868 W
22	1948	75.471 N 14.066	. W	28	1230	74.526	N 16.099 W
23	141	75.438 N 13.993	. W	28	1917	74.470	N 16.259 W
23	743	75.397 N 14.057	W	29	148	74.400	N 16.424 W
23	1330	75.331 N 14.246	W	29	719	74.277	N 16.850 W
23	1918	75.097 N 14.672	W	29	1346	74.277	N 16.850 W
24	631	75.195 N 14.501	W	29	1904	74.277	N 16.850 W
24	1312	75.159 N 14.559	W	30	126	74.217	N 16.842 W
24	1821	75.130 N 14.592	W	30	708	74.213	N 16.869 W
25	145	75.097 N 14.672	W	30	1348	74.186	N 16.934 W
25	656	75.097 N 14.672	W	30	1852	74.172	N 16.940 W
25		75.049 N 14.779		31	148	74.102	N 17.014 W
25	1948	74.998 N 14.893	W	31	748	74.048	N 17.061 W
26	119	74.891 N 15.201	W	31	1337	74.069	N 17.068 W
26	748	74.891 N 15.201	W	31	1938	74.039	N 17.101 W
26	1316	74.891 N 15.201	W				

DAY	GMT	F'Ü:	SIT	ION		DAY	GMT	PO:	3 I 7	TION
1	102	78.621	N	7.458	ы	1 1	040	77.821	N	9.122 W
i		78.620		7.475		11		77.791		9.175 W
1	1254			7.552		11		77.791		9.175 W
1		78.559		7.655		11		77.734		9.279 W
\hat{z}		78.534		7.808		12		77.706		9.314 W
2	_	78.512		7.864		12		77.688		9.451 W
2		78.511		7.862		12	1348	77.688	N	9.451 W
2	1921	78.503	Ν	8.043	W	12	1904	77.691	Ν	9.622 W
3	148	78.481	Ν	8.164	W	13	148	77.712	Ν	9.676 W
3	720	73.481	N	8.164		13		77.712		9.676 W
3	1348	78.462	Ν	8.224				77.748		9.973 W
3		78.430		8.291		13		77.760		10.476 W
4	133	78.421	Ν	8.286	W	14		77.740		10.625 W
4	708	78.421	Ν	3.286		14		77,600		11.013 W
4		78.404		8.284		14		77.541		11.170 W
4		73.404		8.325	W	14		77.530		11.147 W
5		78.379			W	15		77.469		11.234 W
5		78.379		8.321		15		77.370		11.254 W
5		78.375		8.313		15		77.337		11.331 W
5		78.357		8.314		15		77.312		11.381 W
6		78.355		8.268		16	_	77.297		11.369 W
6		78.308		8.343		16		77.220		11.506 W
		78.280		8.385				77.180		11.688 W
6		78.251		8.515				77.101		11.856 W
7		78.251		8.515		17		77.106		11.860 W
7		78.194		8.576		17 17		77.106 76.800		11.860 W
7 7		78.184 78.180		8.613		17		76.633		12.695 W
8		78.184		8.662		18		76.507		12.812 W
8		78.145		8.605		18		76.435		12.917 W
8		78.134			W	18		76.435		12.917 W
3		78.105		8.658		18		76.331		13.125 W
9		78.082		8.619		19		76.250		13.174 W
ģ		78.030		8.708		19		76.250		13.174 W
9		78.029		8.704		19		76.250		13.172 W
Ś		77.939		8.951		19		76.048		13.453 W
10		77.907		9.014		20		75.990		13.480 W
10		77.882		9.028		20		75.953		13.476 W
10		77.883			W			75.914		13.519 W
10		77.847		9.088	W	20	1910	75.832	Ν	13.557 W

BUOY ID 1773

DECEMBER 1981

DAY	GMT	POSIT	ION		DAY	GMT	POS	SIT	ION	
355	1850	79.377 N	5.769	W	361	148	79.034	N	5.970	W
356	133	79.367 N	5.759	W	361	701	79.034	Ν	5.970	W
356	748	79.375 N	5.555	W	361	1345	79.003	И	6.083	W
356	1326	79.362 N	5.462	W	361	1948	78.988	Ν	6.176	W
356	1948	79.360 N	5.394	W	362	147	78.943	Ν	6.576	W
357	110	79.340 N	5.321	W	362	745	78.887	Ν	6.852	W
357	748	79.340 N	5.321	W	362	1333	78.864	N	6.921	W
357	1303	79.334 N	5.253	W	362	1928	78.834	N	7.134	W
357	1938	79.305 N	5.264	W	363	031	78.780	Ν	7.224	W
358	043	79.305 N	5.264	W	363	721	78.834	N	7.134	W
358	736	79.311 N	5.182	W	363	1321	78.769	N	7.285	W
358	1239	79.268 N	5.339	W	363	1904	78.743	N	7.345	W
358	1926	79.233 N	5.466	W	364	148	78.743	Ν	7.345	W
359	035	79.206 N	5.563	W	364	657	78.699	N	7.340	W
359	724	79.190 N	5.692	W	364	1341	78,704	Ν	7.416	W
359	1348	79.190 N	5.692	W	364	1948	78.685	Ν	7.373	W
3591	1914	79.160 N	5.735	W	345	126	78.681	N	7.401	W
360	142	79.119 N	5.880	W	365	748	78.669	N	7.377	W
360	713	79.090 N	5.943	W	365	1317	78.665	N	7.382	W
360	1348	79.090 N	5.943	W	365	1948	78.665	Ν	7.382	W
360	1902	79.047 N	5.980	W						

DECEMBER 1981

DAY	GMT	PO:	SIT	ION		DAY	GMT	PO	3IT	TON	
335	1945	82.227	N	6.077	W	345	1922	80.944	N	3.898	W
336	143	82.236	Ν	6.117	W	346	129	80.944	N	3.898	W
336	745	82,236	Ν	6.117	W	346	714	80.896	Ν	3.752	W
336		82.221	N	6.128	W	346	1348	80.342	N	3.751	W
336	1930	82.188	Ν	6.150	W	346	1858	80.796	Ν	3.879	W
337	132	32,159	Ν	6.063	W	347		30.747		3.800	
337	722	82.159	Ν	6.063	W	347	650	80.748	N	3.816	
337	1323	32.106	Ν	6.012	W	347		80.699		3,808	
337	1905	82.075	N	5.780	W	347		80.665		3.853	
338	148	82.071	Ν	5.849	W	348	120	80.664	Ν	3.819	
338	658	82.067	N	5.866	W	348	748	80.664	Ν	3.819	
338	1342	82.055	Ν	5.777	W	348		80.597		3.837	
338	1947	82.037	Ν	5.650	W	348	1948	80.501	Ν	3.871	W
339	128	82.021	Ν	5.498	W	349	056	80.457	N	3.833	
339	748	82.024	N	5.516	W	349	746	80.457	Ν	3.833	W
339	1318	81.985	N	5.414	W	349	1247	80.364	Ν	3.917	W
339		81.955		5.377	W	349		80.299		4.008	
340	105	81.947	Ν	5.372	W	350		80.156		4.126	
340	748	81.947	Ν	5.372	W	350	729	80.156	Ν	4.126	
340	1256	81.877	N	5.244	W	350		80.097		4,237	
340	1936	81.792	Ν	5.134	W	350		80.000		4.272	
341		81.737		4.925	W	351		79.937		4.358	
341	733	81.737	Ν	4.925		351		79.937		4.358	
341	1236	81.692	Ν	4.810		351		79.937		4.358	
341	1924	81.622	Ν	4.638	W	351		79.816		4.353	
342		81.575		4.466		352		79.765		4.391	
342	721	81.575		4.466		352		79.765		4.391	
342		31.509		4.214	W	352	1348			4.360	W
342		81.503		4.160		352		79.660			W
343		81.379		4.098		353		79.612		4.417	
343	709	81.379	N	4.098	W	353		79.602		4.431	W
343	1348	81.379	Ν	4.093	W	353		79.544		4.458	W
343	1900	81.219		3.979		353		79.506		4.436	
344	147	81.203		3.954		354		79.506		4.436	
344	748	81.205		4.005		354	728	79.458		4.481	
344		81.205		4.005		354		79,400		4,556	
344	1945	81.063		3.904		354		79.375		4.720	
345		31.036		3.972		355		79.373		5.806	
345		31.000		3.919		355		79.367		5.759	
345	1330	80.966	N	3.809	W	355	1348	79.370	N	5.669	W

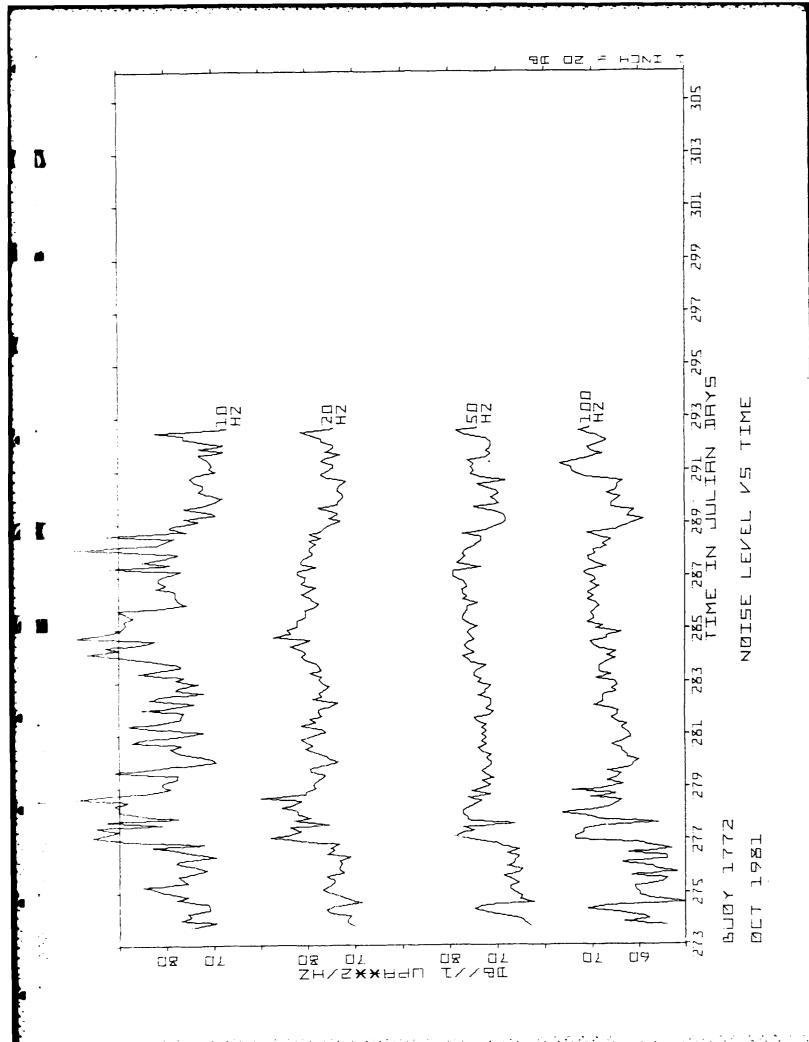
APPENDIX 3

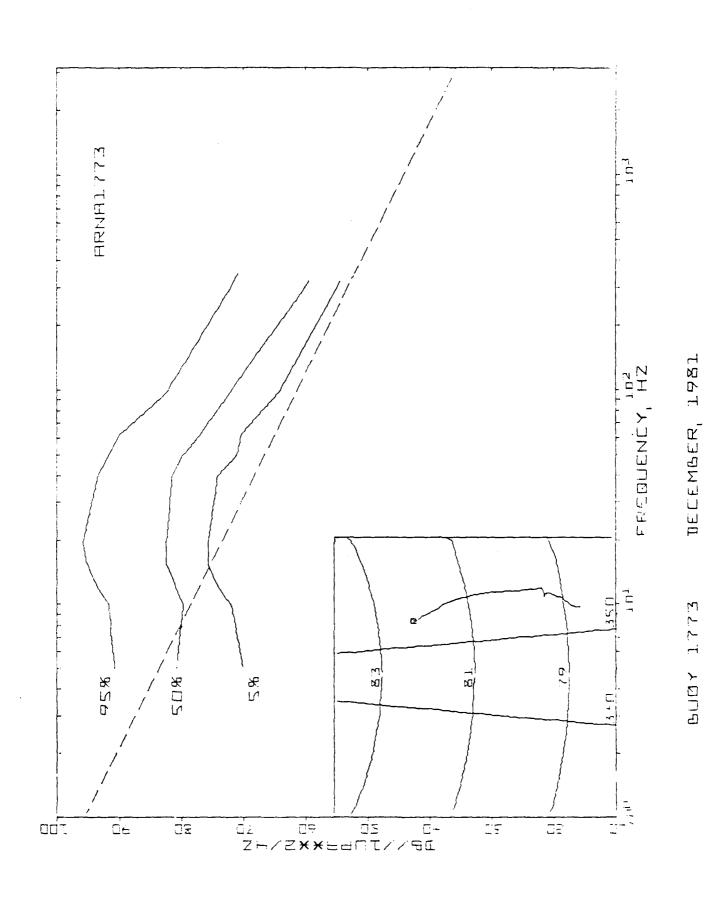
Date Buoy I.D. 1773

Life in Reporting Area 2 (West Greenland Sea)

1 Dec 1981 - 15 May 1982

Type: SYNARGOS (5 - 320 Hz)





D

MONTH: JANUARY 1982 BUDY: 1773

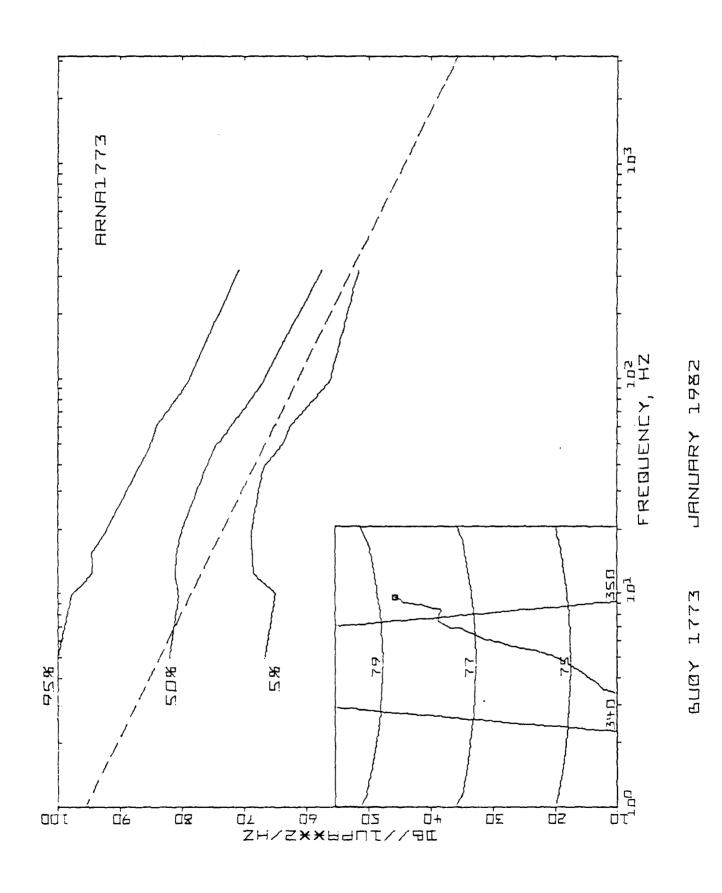
OUTPUT IN FILE ARNAI773

EAST: #-136.9 DISFLACEMENT (N. MI.): 305.628 NORTH: *-274.9 DIRECTION (TRUE): 211.213

THE NUMBER OF DATA SAMPLES IS 246

	MAX	114.8	109.8	106.5	104.0	99.3	92.8	90.9	8:7.6	34.7	75.6
	22%	107.0	27.7	94.4	94.5	92.0	86.8	84.9	83.8	73.7	70.8
	30%	101.9	93.8	91.7	91.0	89.2	84.7	83.0	31.6	6.97	68.9
	75%	92.8	86.5	86.5	0.38	34.4	80.1	78.9	77.8	72.7	63.6
EDIAN	50%	3 81.9	80.4	81.1	80.9	80.0	75.9	74.4	711.7	66.6	57.5
Σ	25%	75.3	74.4	75.7	74.8	74.8	72.7	70.3	67.5	61.9	8 8 8
	10%	69.3	69.1	70.9	72.3	71.7	63.9	66.8	64.7	57.3	52.2
	2%	66.6	6.49	63.4	68.8	63.8	66.7	63.7	62.2	56.0	51.5
	MIN	63.0	59.9	62.8	63.6	63.6	62.1	53.9	56.9	49.9	43.6
STO	LEV	12.0	8.0	о. С	7.7	7.1	6.0	6.3	6.7	7.2	6.4
	AVG	34.5	80.8	31.6	81.0	30.1	76.6	74.7	72.5	67.3	59.0
FREGUENCY	ZH	o.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0

04/06/82 15:12:28



D

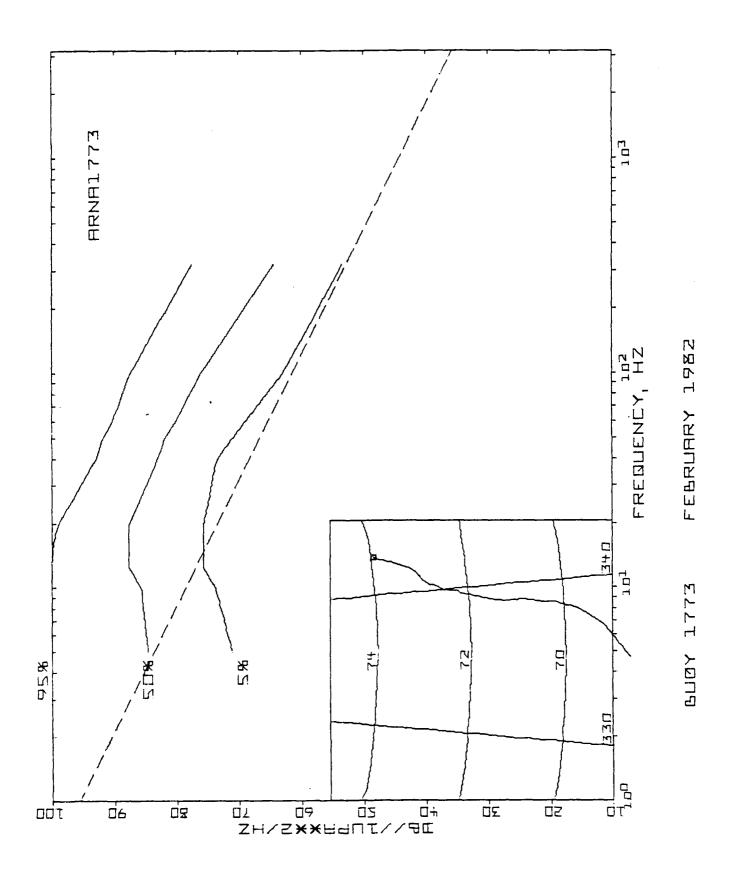
MONTH: FEB 1932 BUDY: 1773

CUTPUT IN FILE ÁRNA1773

EAST: #-149.2 DISPLACEMENT (N. MI.): 353,779. NORTH: *-322.2 DIRECTION (TRUE): 203.549

THE NUMBER OF DATA SAMPLES IS 224

							98.0				
	756	110.2	101.0	101.0	37.00	0. 0. 0.	92.8	91.7	83.8	37.4	77.4
	%0 <i>6</i>	103.0	3. 3.	98.5	0. 00.	97.0	91.G	90.0	83° 83°	93 5	74.9
	75%	9. 99.	0.96	0.96	50.50	54.0	0.88 0.88	87.2	្ត ទូ	91.0	70.2
EDIAN	50%	34.7	85.7	87.8	87.7	87.7	83.0	81.3	79.5	75.9	64.2
Σ	252	13.4	80.4	82.4	8 8 8	83.1	78.7	76.9	4.9	6.69	88.2 2
	10%	74.7	76.3	6.11	78.9	78.9	75.9	73.7	70.7	65.8	50 10 10 10 10 10 10 10 10 10 10 10 10 10
	5%	70.9	73.7	75.7	75.7	75.7	73.4	70.9	68.2	62.7	8°8
	MIN	63.3	62.4	65.7	67.7	69.3	62.0	59.7	60.9	57.8	51.4
STD	V:30										
	AVG	33.1	87.5	00 00 01	0.68	88.5	83.4	82.0	5.61	75.8	64.5
FREGUENCY	ZH	0.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0



NONTH: MARCH 82 BUOY: 1773

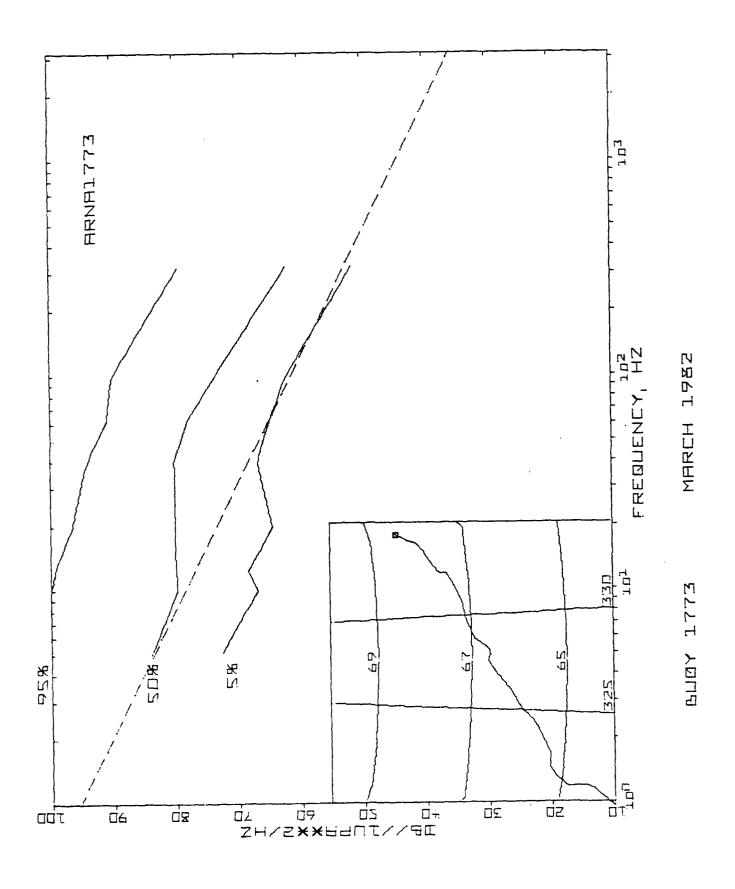
CULTFUT IN FILE ARNA1773

DISFLACEMENT (N. MI.): 512.641 NORTH: *-338.8 EAST: *-389.3 DIRECTION (TRUE): 236.310

THE NUMBER OF DATA SAMPLES IS 238

	MAX	114.8	108.0	107.0	105.0	102.5	101.0	p.pe	92.3	93.4	84.5
		_	_					92.5			
	206	108.0	90 00 10	0.0	94.5	92.9	89.9	0.00	87.6	83.9	75.6
	75%	94.0	©©. ▲	88.4	89.2	0 0 0	រ ព ព	84.0	82.0	80.1	68.9
YEDIAN								78.9			
Ξ	25%	79.4	70.9	71.9	72.3	72.9	73.4	72.8	711.7	67.4	56.1
	10%	74.7	68.4	69.1	63.8	6.33	68.1	63.4	67.5	63.9	ය. ක්ර
	2%	72.7	66.8	68.4	66.3	64.4	66.7	62.39	64.7	62.1	51.5
	MIN	65.8	63.1	66.3	51.6	53.4	61.4	61.6	27.4	00°0	47.3
STD	LEV	11.6	11.1	10.2	10.3	10.0	0 0	7.7	დ დ	8.5	0 0
	AVG	37.7	81.2	81.3	81.2	30.6	79.4	78.6	77.2	73.9	63.0
FIREGUENCY	HZ	ဝ. တ	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0

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MONTH: APR 82 B

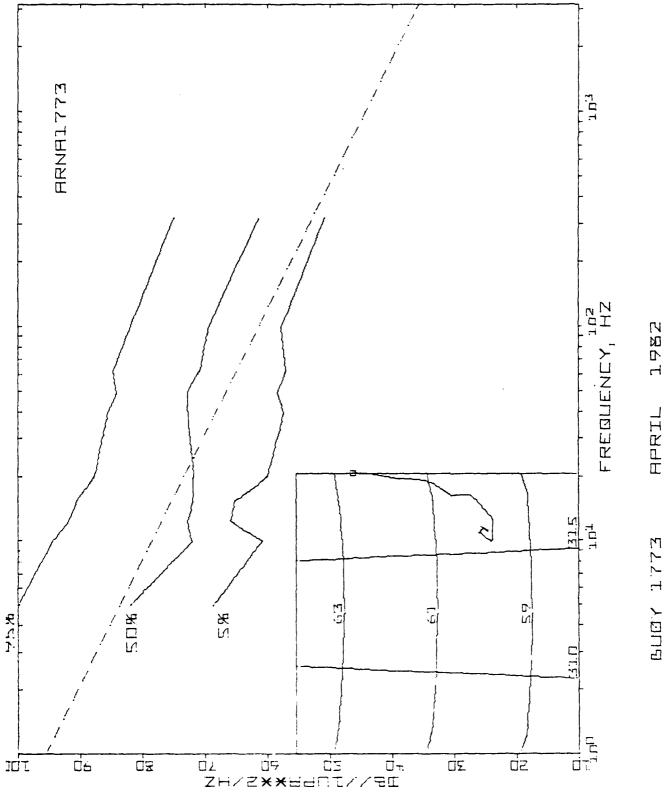
BUOY: 1773

CUTPUT IN FILE ARNA1773

DISFLACEMENT (N. MI.): 189.992 NORTH: *-165.6 EAST: -93.687 DIRECTION (TRUE): 210.918

THE NUMBER OF DATA SAMPLES IS 212

XOM	112.0	0.801	104.5	500.5	98.0	94.0	99.00	92.3	92.2	83.4
06.7	101.0 1		_							
,06	97.5	89.0	87.1	86.0	34.0	82.0	31.3	81.6	77.8	70.2
75.1	88.0	77.9	78.8	78.9	78.9	78.7	78.0	76.7	74.1	65.4
EDIAN For	61.9	71.9	72.8	711.7	71.7	72.7	72.8	70.7	69.3	61.3
ME VES	76.9	8.99	68.4	67.7	64.4	66.7	86.8	65.7	63.9	56.8
10%	69.03	63.1	66.8	65.7	60.9	60.6	60.09	60.6	9,0	52.8
بر بر	68.7	80.8	62.3	65.1	60.09	57.3	99°9	56.9	57.8	50.8
2	63.9	56.3	6.49	61.7	56.3	51.8	51.9	43.4	43.1	41.3
STD		• •							7.7	
500	83.0	74.1	74.9	73.9	72.2	72.4	72.3	71.2	69.0	61.8
FREQUENCY N7	0.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0



DATA BY WEEKS

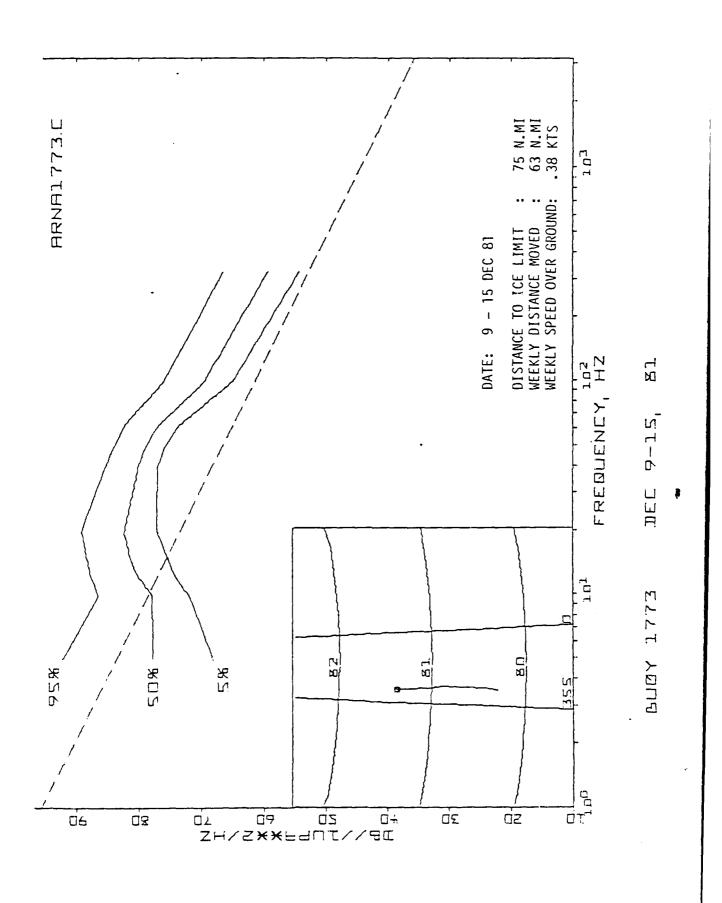
JULIAN DAYS: 343 TO 349 Dec 9-15, 81

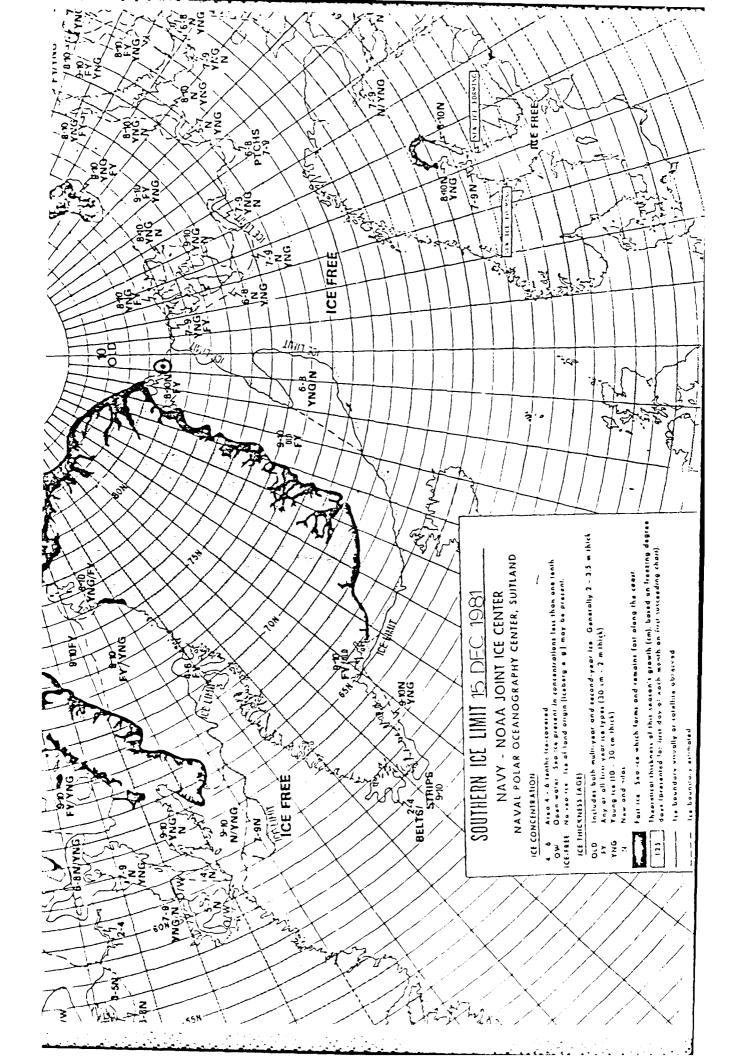
OUTPUT IN FILE ARNA1773.C THE NUMBER OF DATA SAMPLES IS 56

FREQUENCY		STD				Σ	EDIAN				
HZ	AVG	UEV				25%	20%	75%	20%	756	MAX
0.0	78.8					72.7	77.8	$\frac{\omega}{2}$	87.4	92.2	96.7
10.0	78.8			71.9	73.7	75.1	77.9	82.4	64.9	86.5	0.68
12.5	00.00					76.97	30.4	84.9	87.1	87.8	33.4
15.6	82.2					78.9	\$1.7	86.0	87.7	က တ တ	92.9
20.0	0. 0.					78.9	82.5	0.38	© 00 00	89.5	91.0
40.0	81.1					78.7	80.1	0.83	84.7	្រ ស្រ	0.00
50.0	7.5.7					76.9	78.9	0.00	34°O	34.0	0.40
63.0	77.4					75.6	76.7	78.7	80.9	82.2	87.8
100.0	6.0					67.4	69.3	71.8	7.4.1	75.9	78.7
320.0	60.1		0 0 0			56.00	69. 89.	63.6	64.8	6.6.4	60.9

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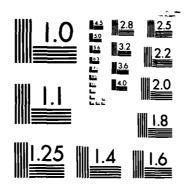


JULIAN DAYS: 350 TO 356 Dec 16-22, 81

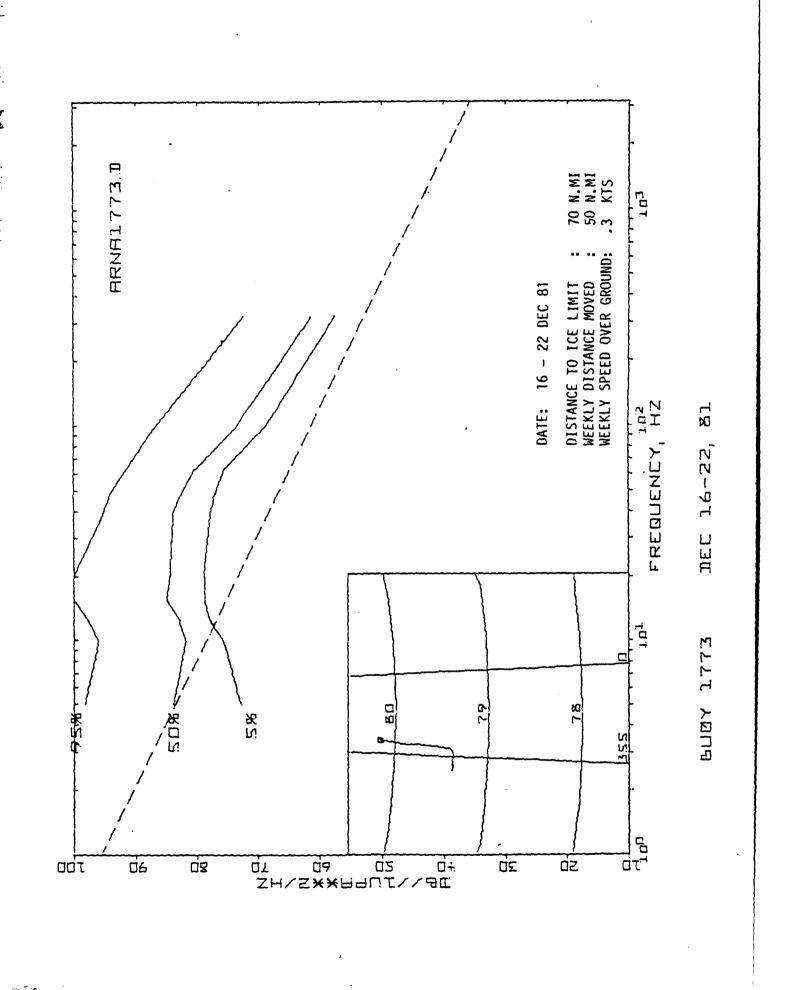
JIFUT IN FILE ARNAL773.D THE NUMBER OF DATA SAMPLES IS 54

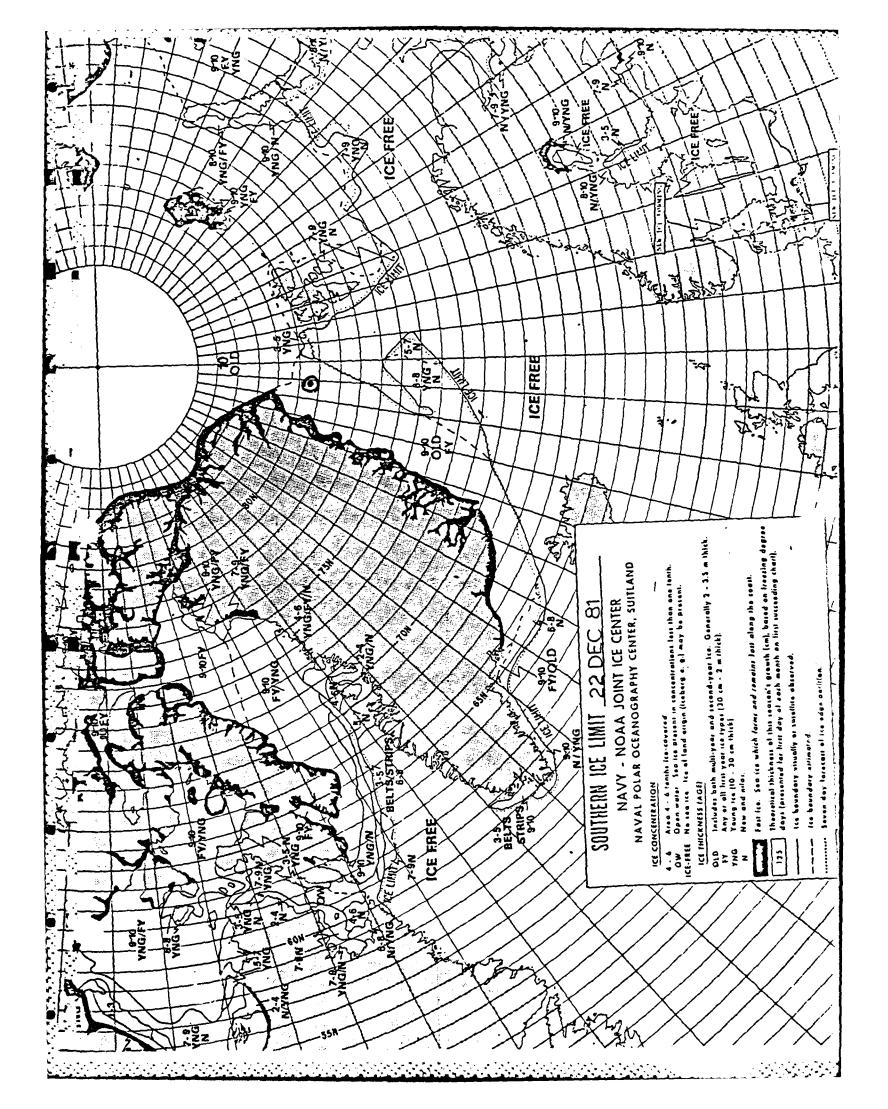
	110 X		07.00		3.7.6	01.0	• 1	02.5	0		ം സ	•	74.4	10. 0.		0.00 00.00	((0.0/	
	05.7	•			0.96	17 7 1	•	ລຸ ຄ.ດວ		7 0.00	93.0	. ()) Y	<u>ن</u> ا)	00.00 00.00		7 ≥ . 4	
					54.4														
	75.7	' 0'	000		00.00	Q ()	N . O N	94.0	. 0	0.1	ال الم	•	0.00	7 40	0.0	27.50	•	66.4	1
EDION	7.07.2	'	0.0	9	ა. შ	0	λ. V	្រ ស្រ		\$. ¢	0 0	,	₹	000	が () ()	7.5 4	•	7	, •
NED	1	101	100		77.9	. (÷.00	6.08	. i	000	70 1	•	○.º.	1 / 1	/ • • /	0.17		· ·) }
					76.9														
					15.7														
					75. 1														
OTE	1		!	7.1	. 7		7.1		÷ • •	7.3		6.1	C 7	4	00 11		ু জ	•	. · ·
					0														
	TYPE TENT	11.7	714	C U) · · · · ·	10.00 0.00		\$.DI	0.00	> · > ·	40 . 0	٥ ا ا	0.00	0.67	9	0.001		320.0

LONG TERM STATISTICAL MEASUREMENTS OF ENVIRONMENTAL ACOUSTICS PARAMETERS I. (U) POLAR RESEARCH LAB INC CARPINTERIA CA B M BUCK ET AL. 13 DEC 84 PRL-TR-53 N00014-04-C-0394 2/7 AD-A156 818 NL UNCLASSIFIED



MICROCOPY RESOLUTION TEST CHART
NATIONAL BURFAU OF STANDARDS-1963-A

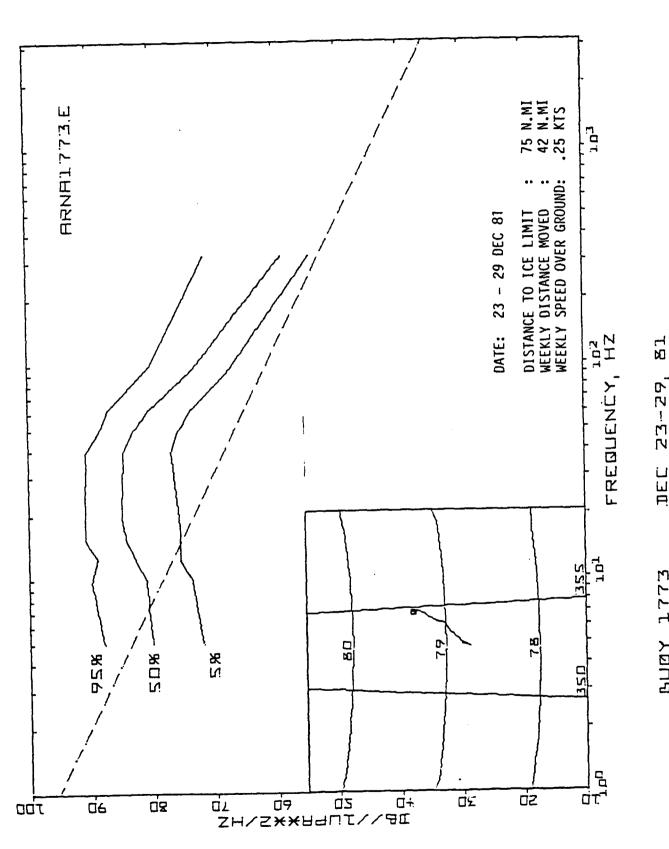




JULIAN DAYS: 357 TO 363 Dec 23-29, 81

OUTPUT IN FILE ARNA1773.E THE NUMBER OF DATA SAMPLES IS 56

FREGUENCY		STD				Σ	EDIAN				
ZH	AVG	LEV	MIN	2%	10%	25%	20%	75%	206		MAX
0.0	30.0		69.69	71.8	72.7	75.9	80.1	83.9	0 0 0	88.0	96.7
10.0	80.0		68.4	73.7	75.1	77.3	81.1	87.9	84.9	•	90.0
12.5	32.6		70.9	75.7	6.77	79.7	82.9	84.9	37.1		92.5
15.6	83.0		72.9	75.7	78.4	80.9	84.4	86.0	00 00 10	•	94.5
20.0	34.2		72.9	75.7	77.8	80.0	85.0	86.9	89.2	-	95.2
40.0	84.1		75.4	77.0	77.9	80.8	84.7	86.8	89.0	-	92.8
50.0	82.6		73.7	75.8	76.9	79.7	83.0	34.9	87.2		91.7
63.0	80.1		70.7	73.5	74.2	76.7	80.3	82.0	84.7		80.00
100.0	73.0		64.9	66.6	67.4	66.69	72.7	75.3	76.9		31.9
320.0	6.09		52.8	54.3	55.3	0. 0. 0.	00 00 00	84.8	68.8		74.2

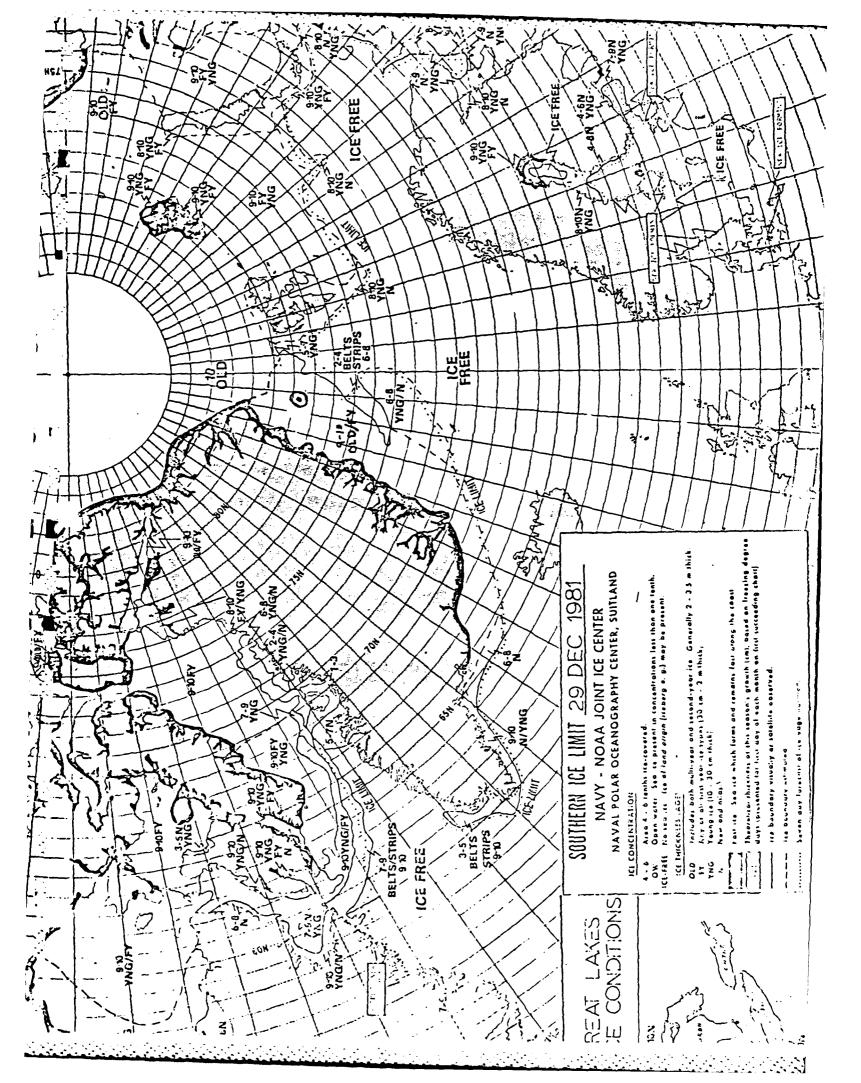


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ステントに関することのののでは、10mm

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DEC **BUBY 1773**



Dec 30 - Jan 5 370 364 10 JULIAN DAYS:

30 THE NUMBER OF DATA SAMPLES IS OUTPUT IN FILE ARNA1773.F

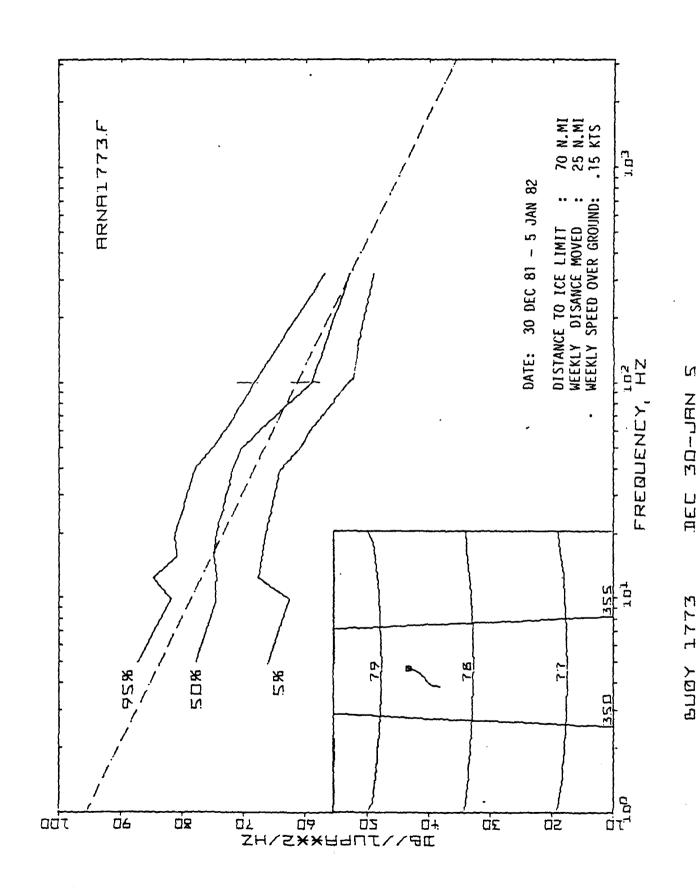
v Dec 30 - Jan

1981-82

89.0 87.1 85.0 36.9 82.0 81.1 75.6 73.4 66.4 MAX 90.7 957 81.8 81.8 80.9 80.9 77.9 75.1 63.1 84.2 79.7 83.8 78.9 30.0 77.0 74.4 64.9 55.3 70.9 68.2 62.1 53.3 75% 81.9 77.7 73.8 77.8 77.8 70.3 66.6 58.9 50% 77.8 74.4 74.4 74.8 74.5 71.8 MEDIAN 25% 71.8 70.3 70.9 72.9 72.3 69.9 8.99 64.7 57.3 52.2 66.8 66.8 63.4 68.8 63.8 65.8 54.6 63.7 61.4 52 65.8 62.4 62.4 66.9 66.9 66.3 63.9 MIN 63.9 65.9 65.9 65.7 65.7 62.7 62.7 62.7 4 9 9 9 4 4 9 9 9 4 4 9 IEV AVG 77.1 75.8 74.9 71.8 69.5 73.7 60.1 FREQUENCY 12.5 15.6 20.0 S.0 40.0 50.0 63.0 10.0

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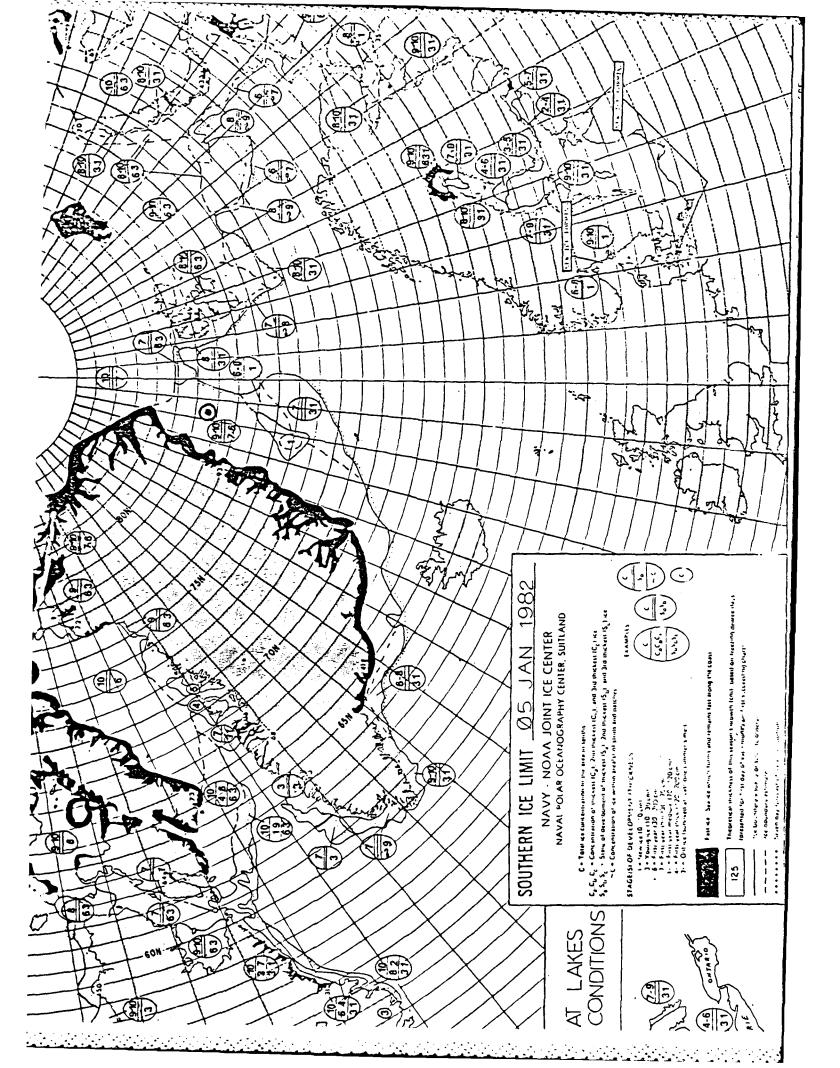
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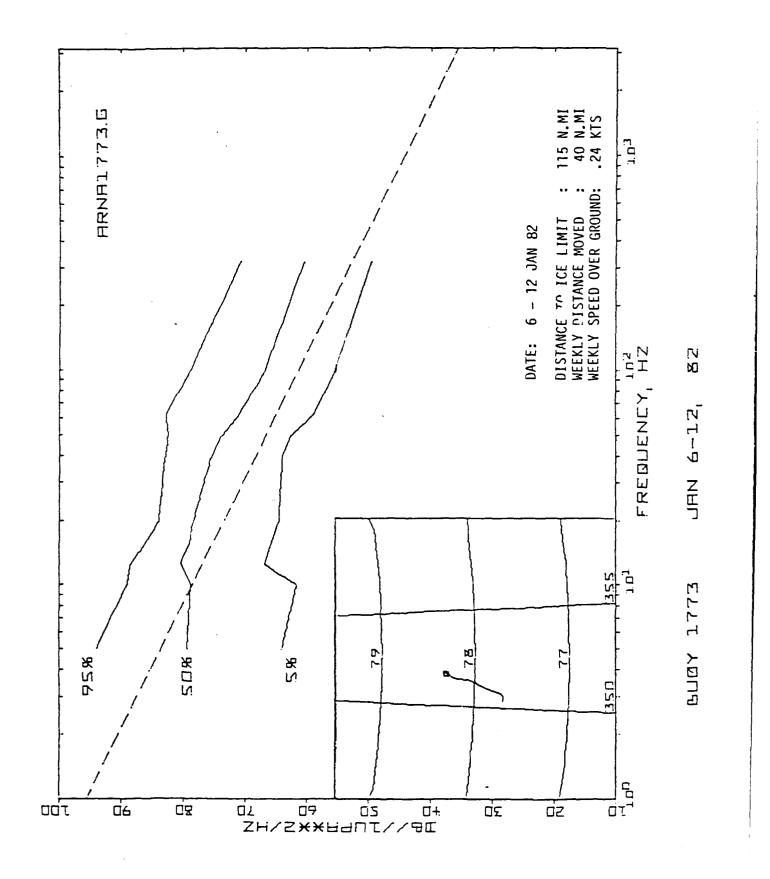
Jan 6-12, 82 JULIAN DAYS: 371 TO 377

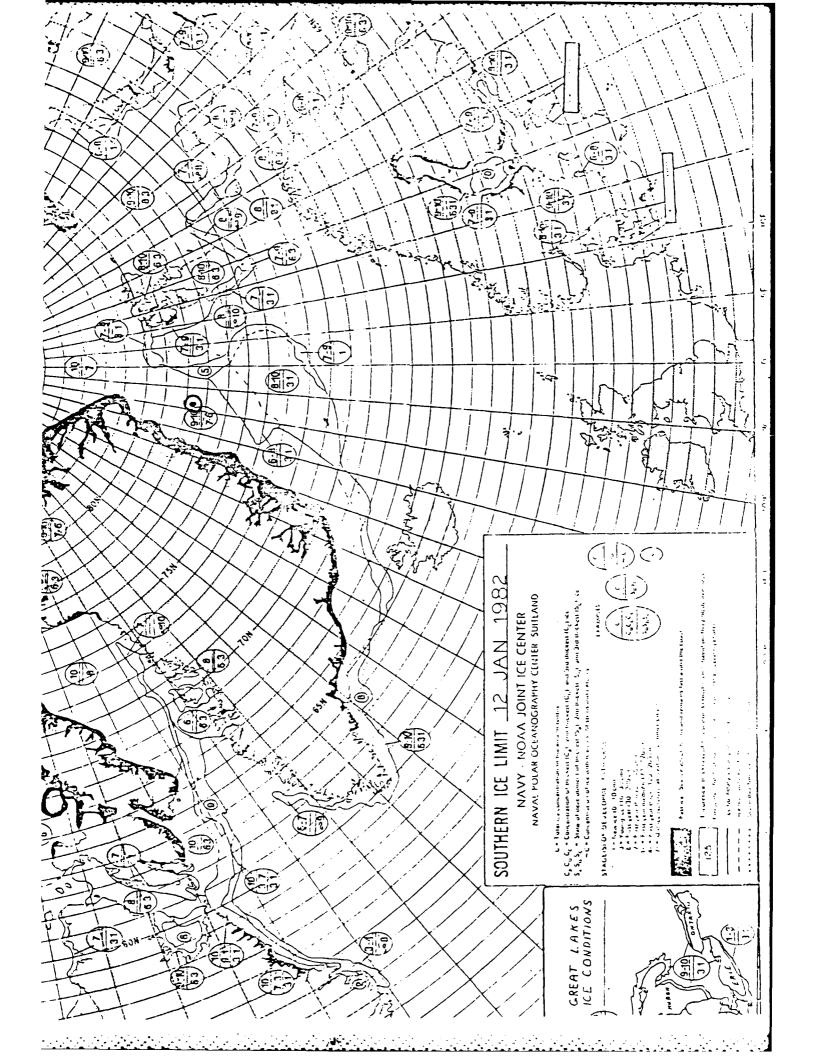
Š , ITPUT IN FILE ARNAL773,6 , HE NUMBER OF DATA SAMPLES IS

										78.7 84.7	
										77.8 78	
										71.8	
IETI I AN	202	7.3.4	78.8	30.4	78.9	78.4	75.4	7:3.7	70.7	66.6	60.4
_										61.9	
										57.8	
										98°9	
										53.8	
STO										7.5	
	AVG	79.3	77.2	78.4	77.6	76.9	74.7	73.1	711.7	67.6	59.6
FREGUENCY	711	0 10	10.0	12.5	15.6	20.0	40.0	0.08 0.08	0.09	100.0	320.0

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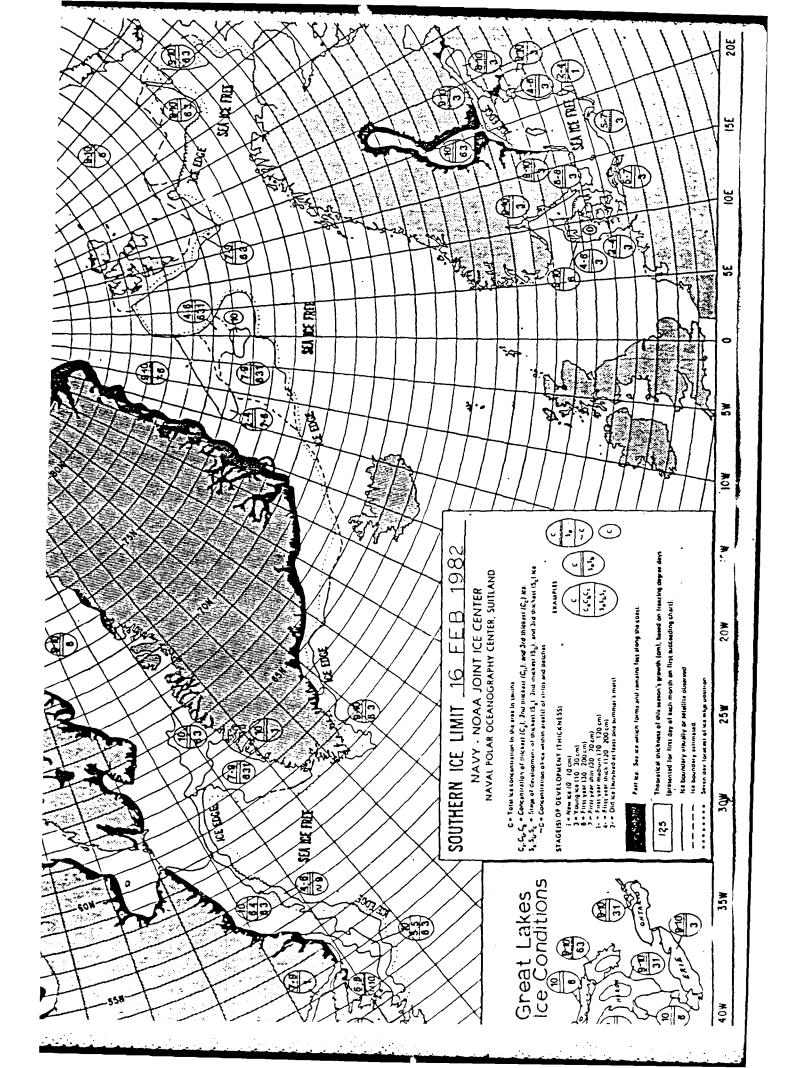
JULIAN DAYS: 378 TO 384 Jan 13-19, 82

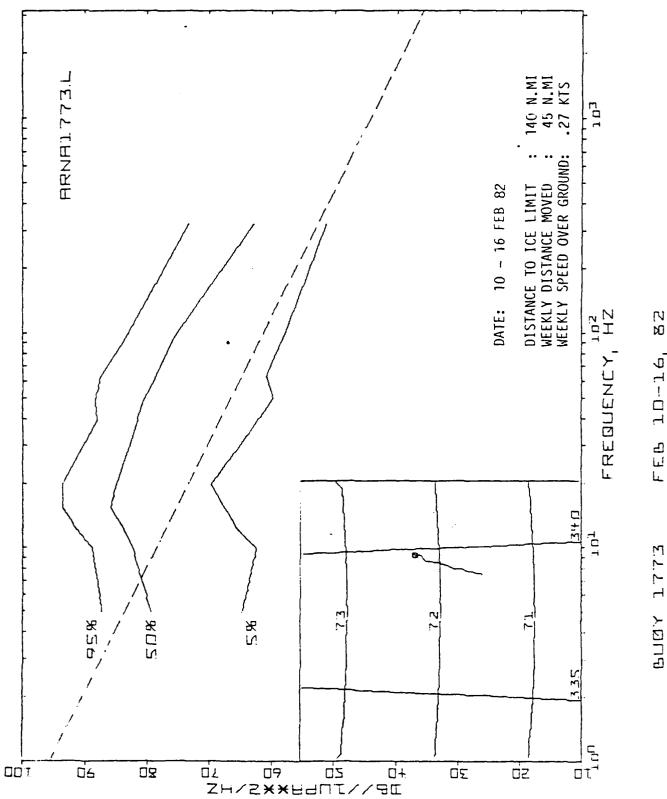
OUTFUT IN FILE ARNAI773.H THE NUMBER OF DATA SAMPLES IS 56

	MAX	114.8	109.8	106.5	104.0	99.8	92.8	8.06	87.6	91.9	74.9
	706	114.0	107.0	104.5	101.2	98.9	91.8	933.4	87.0	80.8	73.3
	206	113.1	105.9	102.9	0.00 0.00	94.5	0.68	87.2	មា ព្រំ	30.1	70.8
	75%	104.9	96.0	4.46	92.0	89.5	86.2	84.0	81.6	76.9	6.8.3
MEDIAN	20%	98.2	99.0	0.60	87.7	0.0g	00. 00.	79.7	77.8	74.1	65.4
Σ	25%	0.00	85.7	34.0	83°.1	30.3	78.7	76.9	74.2	69.3	58.2
	10%	30.3	78.8	78.8	80.0	78.9	77.0	75, 1	71.7	64.9	56.1
	2%	79.4	75.7	75.7	77.1	77.3	75.9	74.4	70.7	63.9	50.00
											54.3
OLS:	DEV	11.3	(O)	0. 4	7.1	6.3	4.9	4.7	٠. ن	ტ ს	64.3 5.9
	AVG	97.0	91.1	0.00	9.00	86.3	82.5	80.8	78.3	73.1	64.3
YONE DOREN		0									320.0

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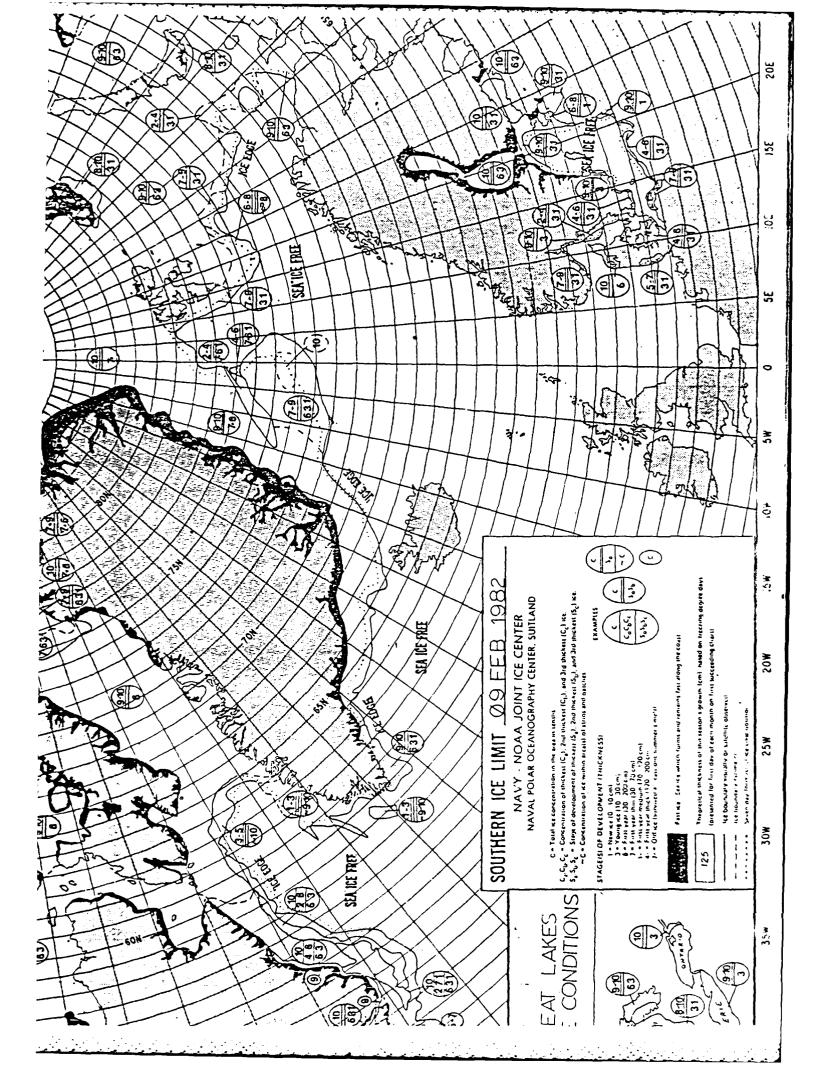


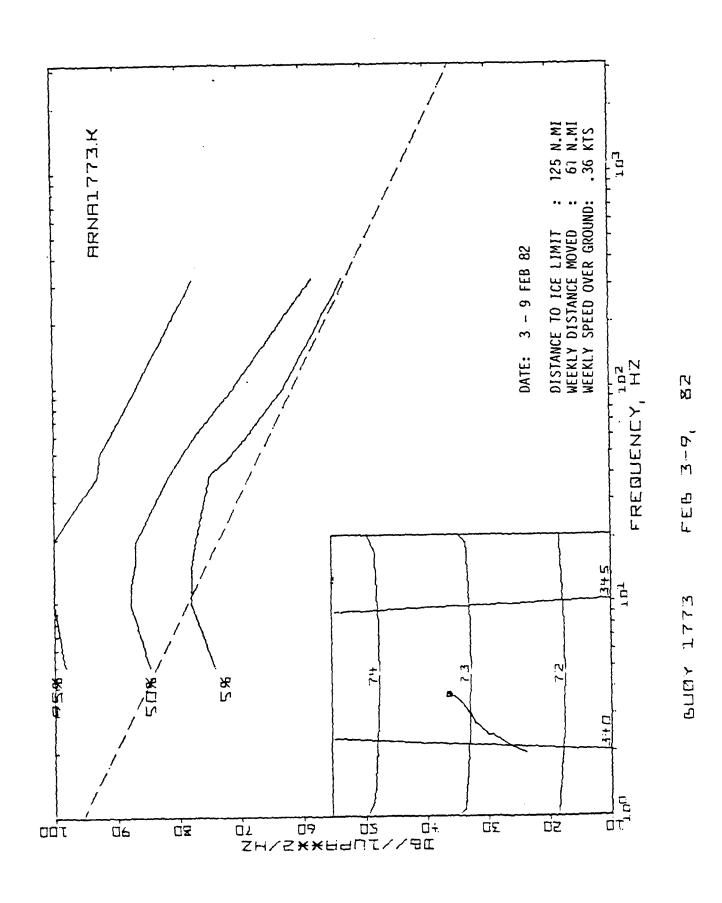
83 FEB 10-16,

UULIAN DAYS: 406 TO 412 Feb 10-16, 82

CUTPUT IN FILE ARNA1773.L. THE NUMBER OF DATA SAMPLES IS 58

	MAX	98.2	95.0	93.8	95.2	94.5	0.68	39.0	91.5	39.9	78.4
	226	37.4	89.0	21.7	93.7	93.7	0.00 0.00	83.4	87.6	83.0	78.8
	30%	30.00 U	87.1	90.0	91.0	0.16	86.8	85.7	က က	6. To	70.8
	72%	83.0	84.9	37.1	က တိ	87.7	ម ខ្លួ	84.0	82.2	77.8	67.3
EDIAN	20%	7. ¢7	82.4	34.0	86.0	0.00 0.00	81.4	80.5	78.7	73.3	62.9
Æ	25%	75.9	78.8	82.4	89°8	83.1	80.1	78.0	76.2	71.3	60.4
	10%	73.4	76.9	79.7	82.5	80.3	77.0	76.4	74.2	6. 69	50.2
	5%	64.7	62.4	65.7	67.7	69.8	62.0	59.7	60.3	57.8	51.4
	MIN	-34.4	-33.4	-33.4	-37.4	-37.4	40.4	-39.4	-35.6	-34.4	-32.9
STD	I.EV	21.3	21.8	22.2	23.2	23.1	22.9	22.6	22.5	20.8	18.6
	AVG	76.1	78.3	30.7	82.1	31.6	77.9	76.8	75.5	71.9	61.0
FREQUENCY	HZ	0.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0

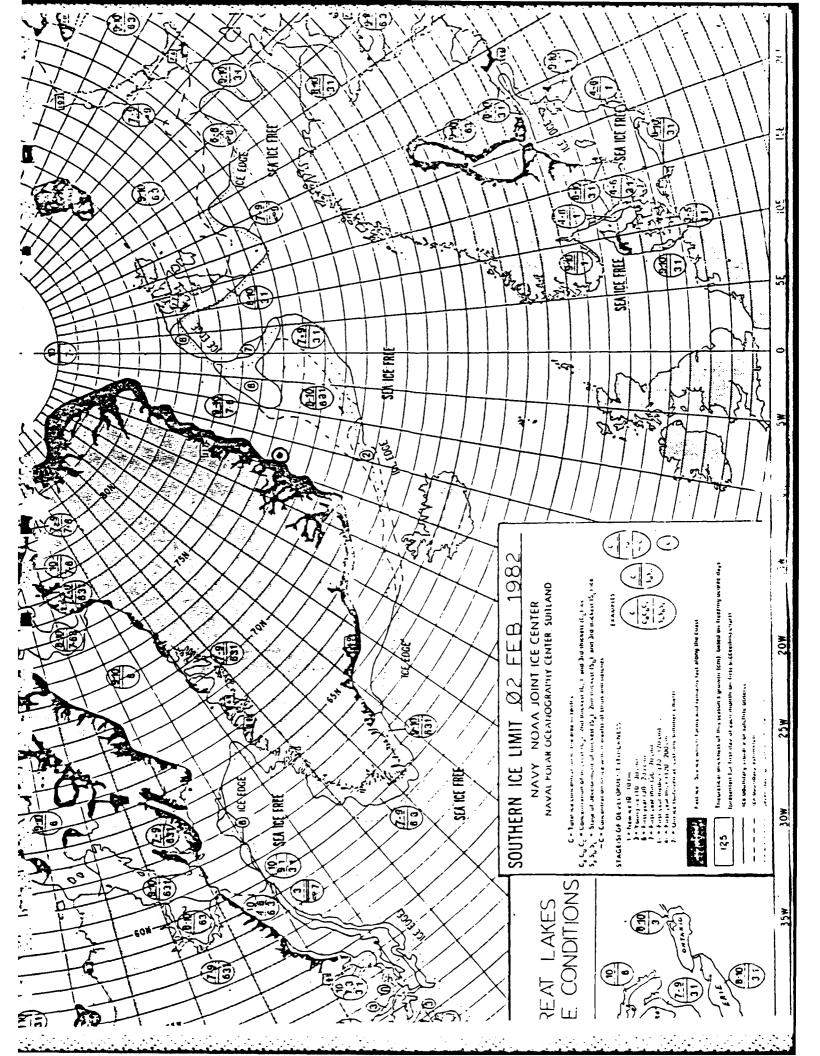


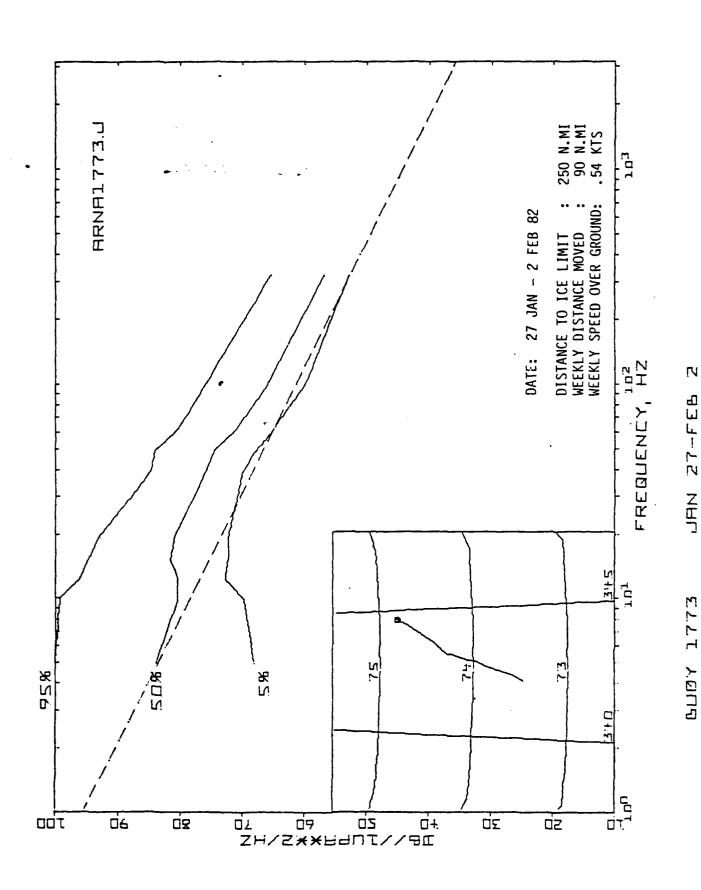


UULIAN DAYS: 399 TO 405 Feb 3-9, 82

OUTFUT IN FILE ARNA1773.K THE NUMBER OF DATA SAMPLES IS 56

	MAX	102.8	107.0	106.5	105.0	103.0	0.0	95.0	93.0	93.4	85.4
	756	98.2		*							
	206	90.0	00 00 00	99.00	96.9	98.0	92.2	90.9	87.6	84.7	74.2
	75%	91.0	96.0	6.76	97.0	95.2	63.0	33.4	80 10 10	31.9	68.9
MEDIAN	50%	34.7	87.8	87.8	86.98	86.9	81.4	78.9	76.7	70.9	58.2
Ī	25%	79.4	81.8	82.9	83.1	32.5	77.0	75.8	72.6	67.4	ପ୍ରହ ୍ ତ
	10%	75.3	78.8	%.8	78.9	78.9	75.9	72.3	70.1	6.3.9	54.3
	2%	74.1	77.9	6.77	77.8	77.1	74.8	70.9	68.2	62.7	ଜ୍ଞ ଜ୍ଞ
	NIN	72.7	75.7	76.3	77.1	75.7	74.1	70.9	66.6	62.1	52.2
STO	UEV	0.8	 	თ თ	8.1	7.7	6.7	7.2	7.5	8.7	۵. م
	AVG	86.1	ო გ	90.1	90.00	83.7	83.2	81.3	78.7	74.0	62.5
FREQUENCY	ZH	0°0	10.0	12.5	15.6	20.0	40.0	50.0	0°09	100.0	320.0





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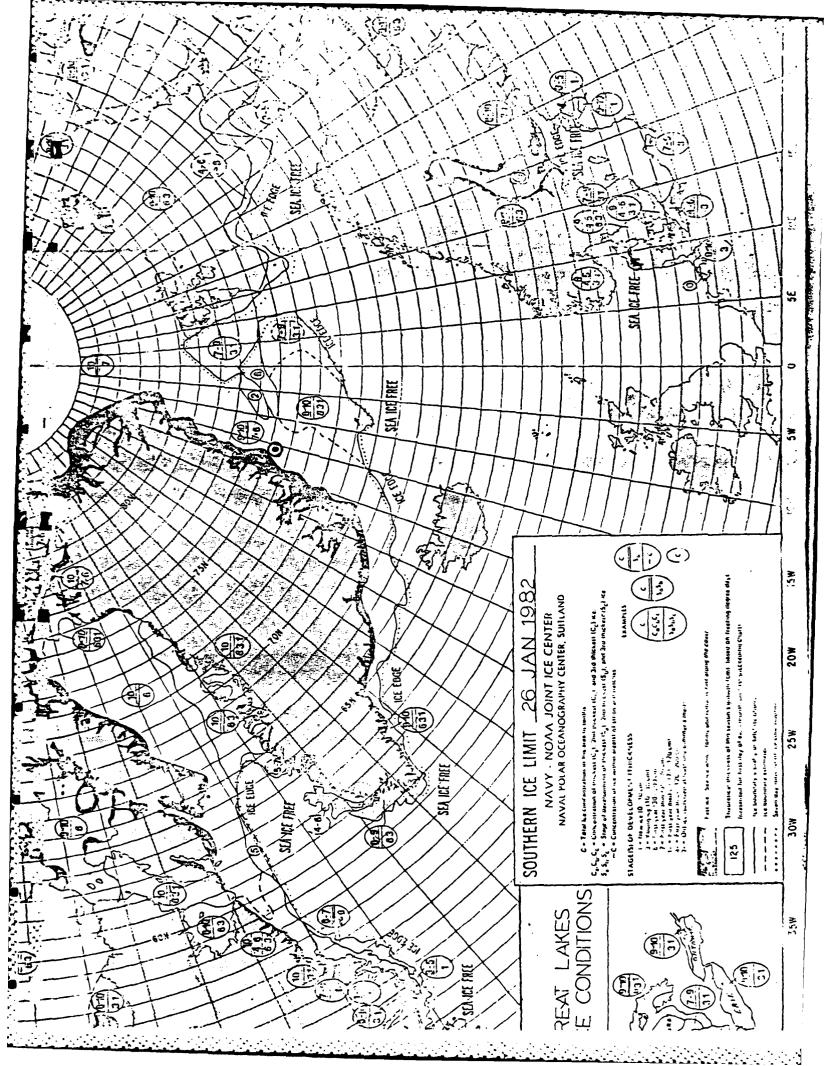
JULIAN DAYS: 392 TO 398

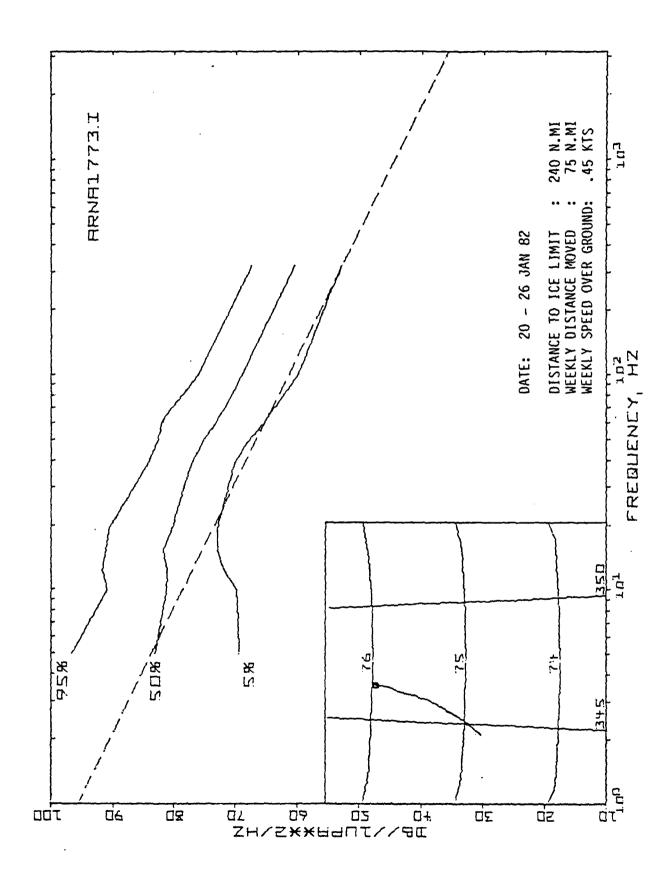
Jan 27 - Feb 2 82

36 UTPUT IN FILE ARNA1773.J

	MAX	10%.01	100.4	0.96	96.4	ψ. Ω.	86.2	0.40	81.6	76.3	9.69
							84.7				
	20%	107.0	96.0	93.2	92.9	92.0	ж Ж Ж	81.8	79.5	74.1	62.9
							81.4				
MEDIAN	20%	83.9	80.4	80.4	81.7	30.9	75.9	74.4	70.7	65.8	36.9
Σ	25%	76.9	75.1	76.3	75.7	74.8	71.8	1.69	67.5	41.4	54.3
	10%	70.9	71.9	73.7	73.9	72.3	63.9	63.4	65.7	60.6	53.3
	%	68,1	69.7	72.8	72.3	72.3	68.89	67.7	64.7	59.8	52.8
	Z	66.6	66.8	71.9	711.7	71.1	68.7	66.3	63.5	59.8	52.8
STD	IEV	2.5	9.1	7.4	6.9	7.0	ന ഗ	m m	្រ ព	4	4 - 1
	AVG	86.6	82.0	82.6	82.3	8	76.6	74.7	72.1	66.94	58.0
YONELGERE	/H	G 15	10.0	in or	1. C.	20.0	40.0	90.0	68.0	100.0	320.0

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BUDY 1773

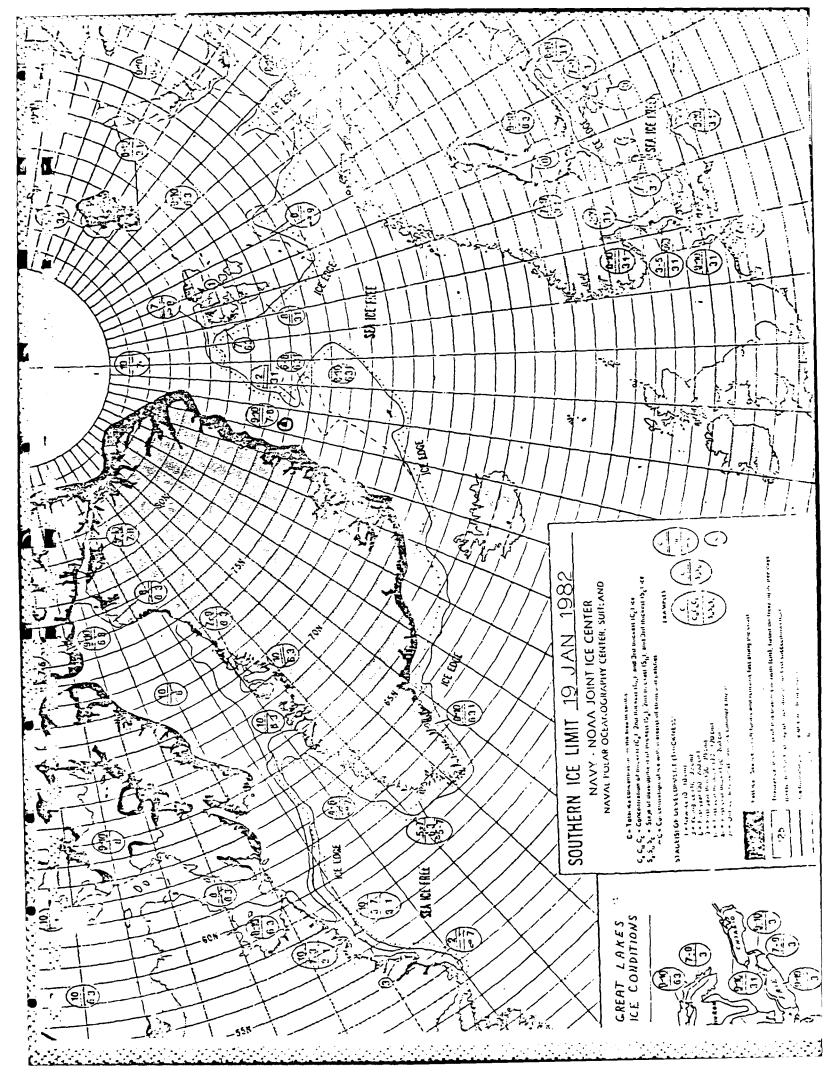
JAN 20-26, 82

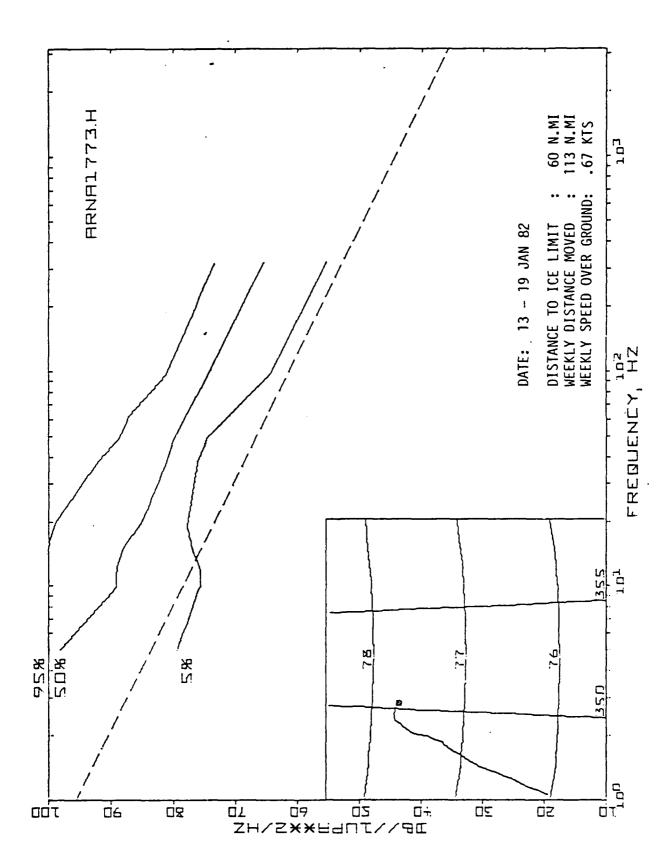
.WLIAN DAYS: 385 TO 391 Jan 20-26, 82 "

OUTPUT IN FILE ARNA1773.I THE NUMBER OF DATA SAMPLES IS 54

	X V E	_									
	95%										
	206	90°	87.8	90.9	90.V	89.2	83.9	32.4	80.0	75.9	66.4
			84.9								
NUIDE	202	83.0	81.1	31.1	81.7	30.0	77.0	75.1	72.6	63.7	60.4
Ξ	25%	78.7	76.3	6.11	78.4	77.1	73.4	71.9	70.7	6. 29	54.3
	10%	70.9	69.7	72.8	73.9	72.9	70.9	6.3.7	65.7	41.4	83.3
	2%	69.3	69.7	71.3	72.9	72.9	6.64	67.7	64.7	0	52.8
											52.2
STD	LIEV	0.0	6.4	6.1	ω ω	ย. เก	ν ν	4	r.	ָ ער	່ທ່
	AVG	84.0	80.7	31.4	81.7	81.0	77.0	0.00	0.00	7 07	59.6
YONE STEAM	HZ	0 10	10.0	12.5	15.6	30.00	0.07	0.01	0.00		320.0

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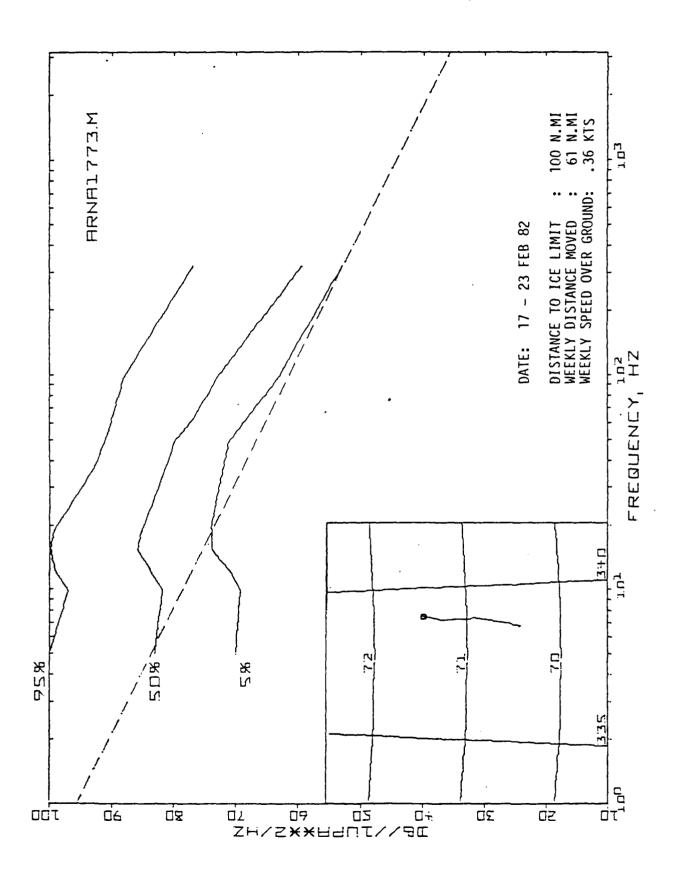
6U0Y 1773

JAN 13-19, 82

JULIAN DAYS: 413 TO 419 Feb 17-23, 82

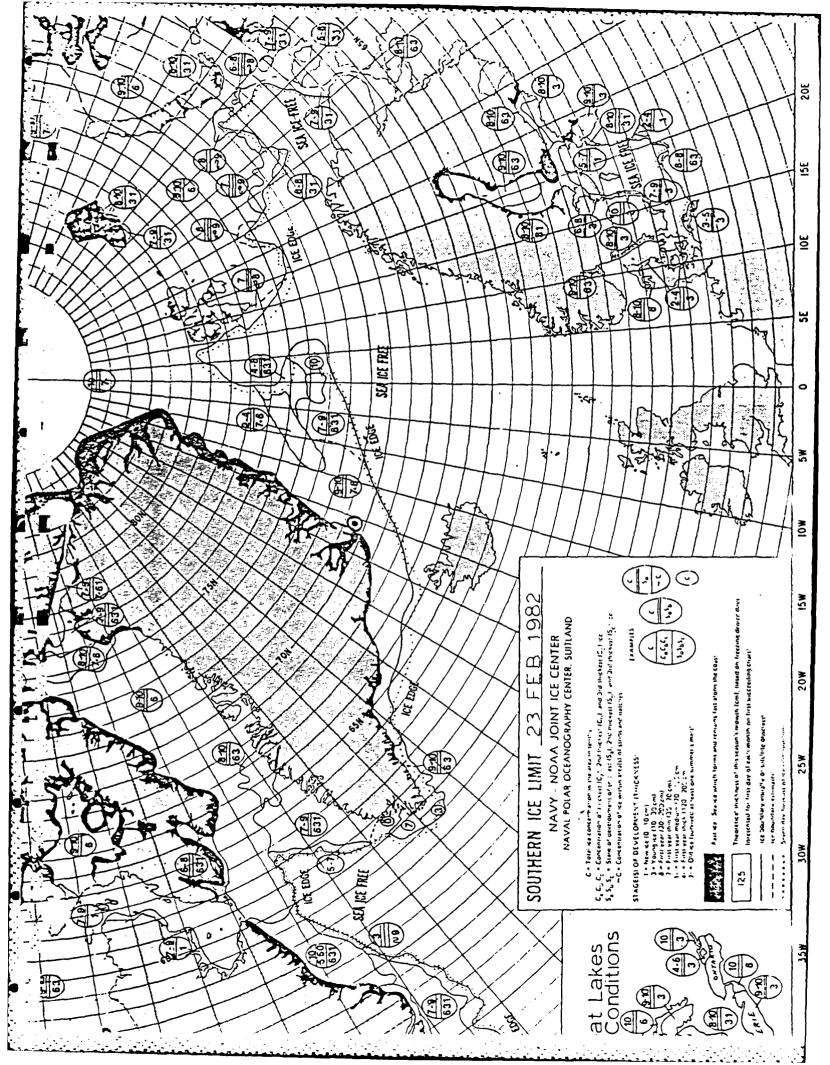
UTPUT IN FILE ARNA1773.M
THE NUMBER OF DATA SAMPLES IS 56

	MAX	107.0	0. 0. 0.	102.0	103.0	101.2	94.0	93.2	92.3	92.2	80.2
		_	6.96								
	20%	95.0	94.4	6.96	0.76	96.4	91.5	90.0	88.2	86.8	74.9
	75%	99	89.0	8.06	92.9	93.7	0.00	87.2	න ම	30.3	70.8
MEUIAN	20%	83.0	81.8	34.0	86.0	0.0 0.0	80.8	73.7	76.7	72.7	89.3
Ē	25%	79.4	76.9	77.9	80.9	30.0	75.9	75.8	73.5	68.7	56.1
	10%	70.9	73.7	75.7	76.4	76.4	73.4	71.9	69.69	63.9	ල ල ල
	22	63.9	69.1	70.9	73.9	73.9	71.8	70.9	68.2	62.7	52.8
	MIN	63.3	67.6	67.6	71.1	711.7	68.1	67.7	64.7	57.8	52.8
STD	DEV	0 0	1	3.5	7.9	7.7	6.9	6.0	7.3	დ დ	Ø. 4
	AVG	84.5	83.4	35.2	86.7	86.6	81.9	80.7	78.4	74.7	62.8
FREQUENCY	HZ	0.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0



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FEB 17-23, 82

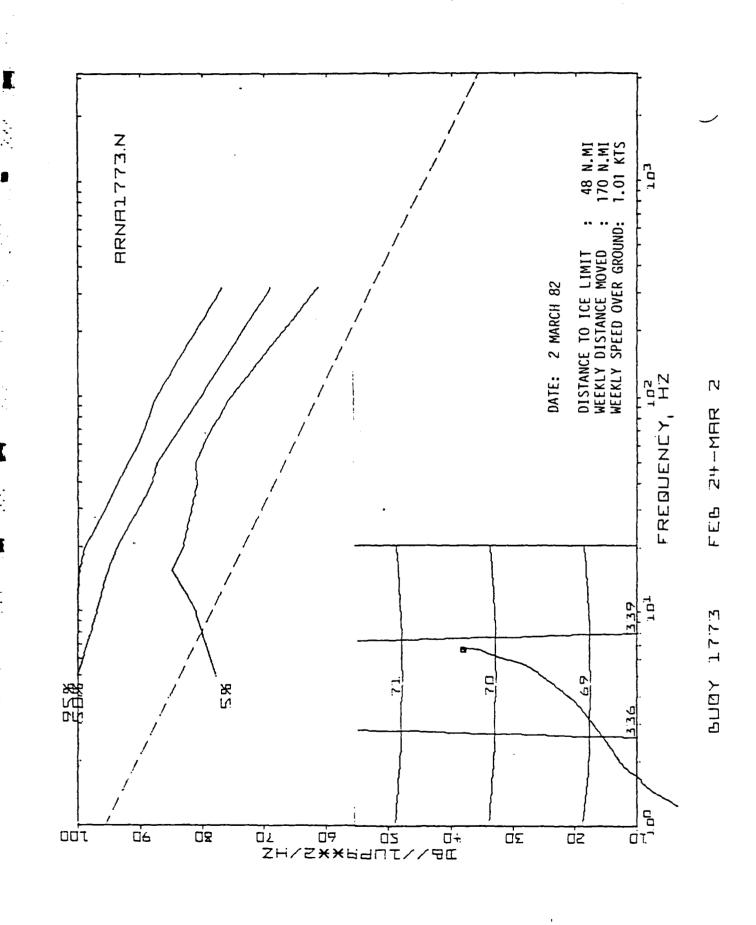


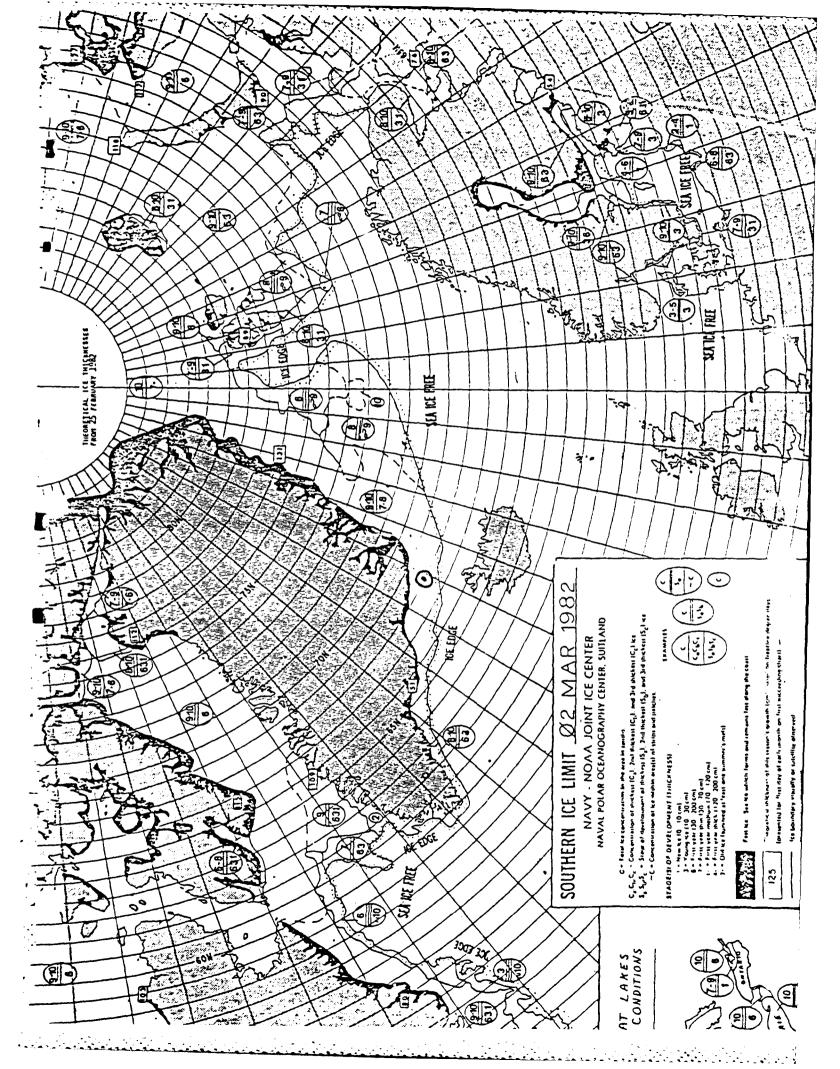
ULIAN DAYS: 420 TO 426 Feb 24 - Mar 2, 82

OUTPUT IN FILE AGNA1773.N THE NUMBER OF DATA SAMPLES IS 56

	HAX	114.8	105.2	102.0	101.9	101.2	0.00	99.00	92.3	90.7	83.4
	796	112.0	102.9	0.101	86.8	93.3	93.4	21.7	88.8	87.4	26.8
	206	110.9	102.0	101.0	6.36	97.0	92.2	90.9	00° 00°	86.1	76.2
	75%	08.8	00.4	97.7	97.0	95.2	20.7	39.0	87.6	33.9	72.4
EUIAN	20%	103.5	6.96	96.0	es Es	93.7	0.00	87.2	84.7	3 80.1	ر. 89
Σ	(S)	86.1	36.5	8	8.00	00	<i>က</i> တ	84.0	82.2	77.8	6.6. 4
	10%	31.4	82.9	85.7	86.0	85.0	82.0	31.3	80.3	75.9	62.1
	2%	77.8	81.1	82.9	83.0	83.1	80.8	31.1	79.5	75.3	61.3
	ZIΣ	72.7	77.9	81.8	83.1	82.5	80.1	78.9	78.7	74.7	60 80
STD	DEV	12.3	7.5	5.7	4.9	4.3	3.7	რ რ	9.4	4.0	4.4
	AVG	23.7	94.2	93.9	93.8	92.3	87.9	86.6	83.0	31.1	69.6
FREQUENCY	HZ	0.0	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0

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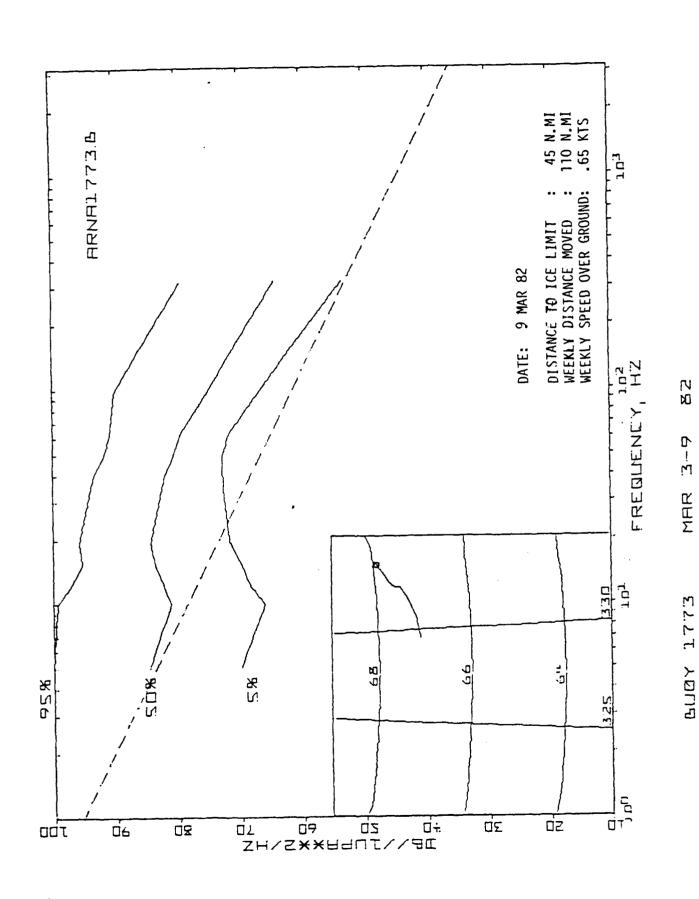


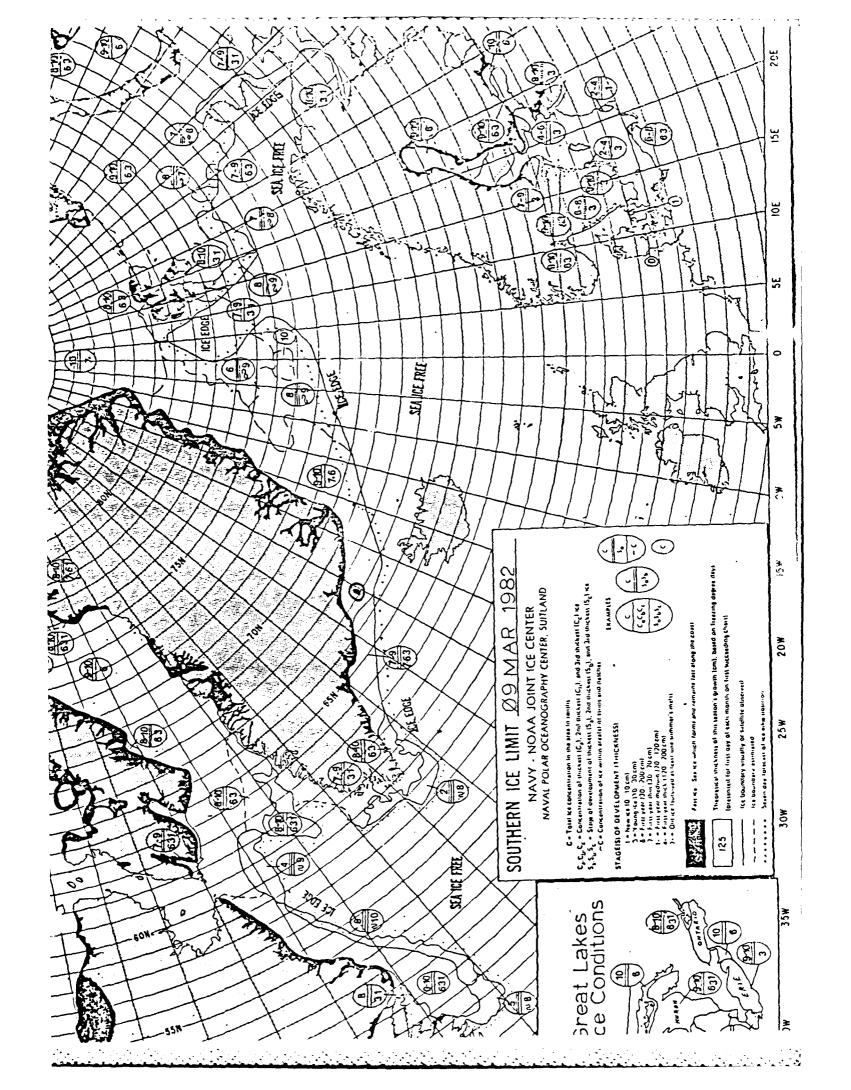


JULIAN DAYS: 427 TO 433: Mar 3-9, 82

CUITPUT IN FILE ARNA1773.0

	MAX	113.1	106.5	101.0	99.R	97.0	101.0	93.2	91.5	92.2	0.4°
	25%	109.5	33.3	8.96	95.2	00 10 10	93.4	91.7	20.7	0. 0.	79.3
	206	103.0	98. S	96.0	84.5	92.9	9.1% S	90.0	89.8	0.68	78.4
	75%	100.0	93.2	93.8	91.0	00 00 00	87.4	85.7	84.7	31.9	69.6
EDIAN	202	34.7	81.1	82.4	თ ტ	34.4	82.0	30.5	79.5	74.7	64.2
Σ	25%	77.8	72.8	75.1	76.4	73.4	77.9	76.9	75.6	70.9	56.1
	10%	72.7	69.1	70.9	71.7	72.9	3.67	72.8	72.6	63.3	54.3
			62.9								
			63.1								
STD	AVG DEV	13.5	11.3	9.6	6.4	7.4	7.0	6.5	£. 6.	2.5	8.7
	AVG	83.7									
FREDUENCY	HZ	0.0	10.0	12.5	15.6	20.0	40.0	0.00	63.0	100.0	320.0



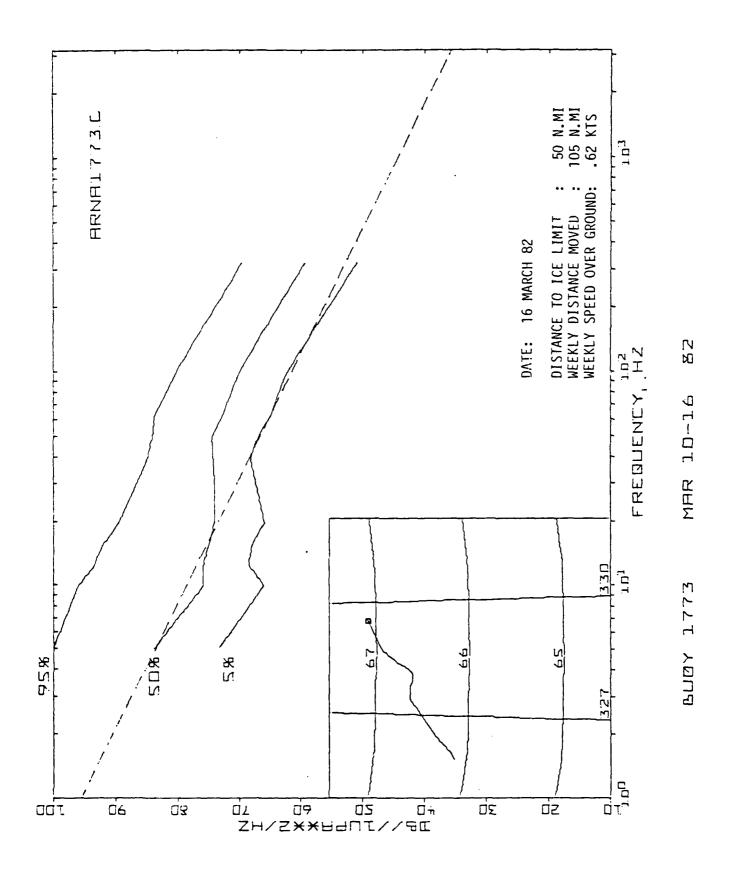


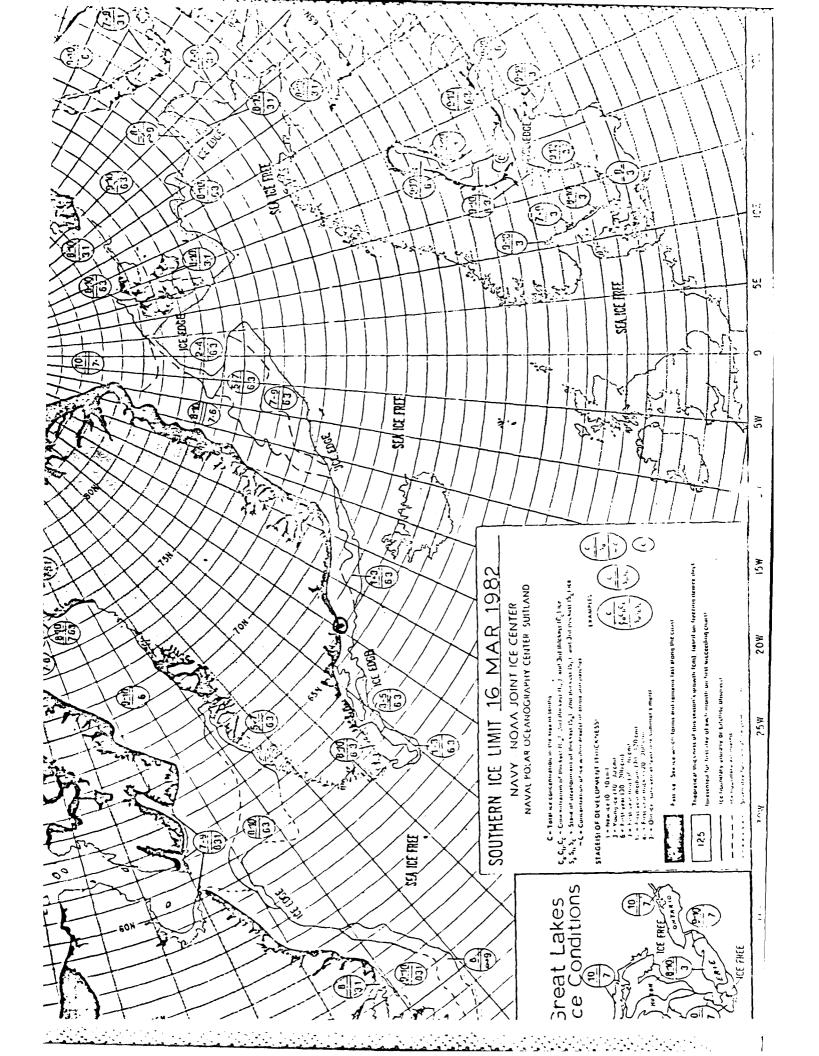
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OUTPUT IN FILE ARNA1773.C THE NUMBER OF DATA SAMPLES IS 53

				_				_		_	_
										92.2	
	%2%	103.0	9.6.0	93.2	92.0	89.2	84.7	34.0	30 00 00	30.1	69.6
	70%	S.801	92.5	93.2	91.0	37.7	83.9	83.0	81.6	77.8	68.1
	75%	94.0	82.4	19.7	80.9	31.7	80.8	30.5	79.5	75.3	64.8
EUIAN	202	33.9	75.7	75.7	74.8	73.9	74.1	74.4	72.6	63.8	59.3
Ξ.	252	77.8	70.3	70.3	71.1	711.7	71.8	6 07	89.89	65.8	54.3
	10%	74.7	8.99	69.1	88.8	6.99	69.3	69.1	67.5	63.3	g1.6
	2%	73.4	\$. 100	68.4	67.9	65.7	68.1	66.8	64.7	62.1	50.8
	Σ	69	63.7	67.6	66.3	63.6	4.6.7	64.9	64.7	59.8	50.8
STD	UEV	10.7	4.6	ω. •	7.8	7.6	6.0	رة ب	6. 1	6.3	7.0
	AVG	86.6	77.0	77.2	77.1	76.7	76.4	75.8	74.4	70.6	60.1
FREGUENCY	HZ	ဝ. တ	10.0	12.5	15.6	20.0	40.0	50.0	69.0	100.0	320.0

3H

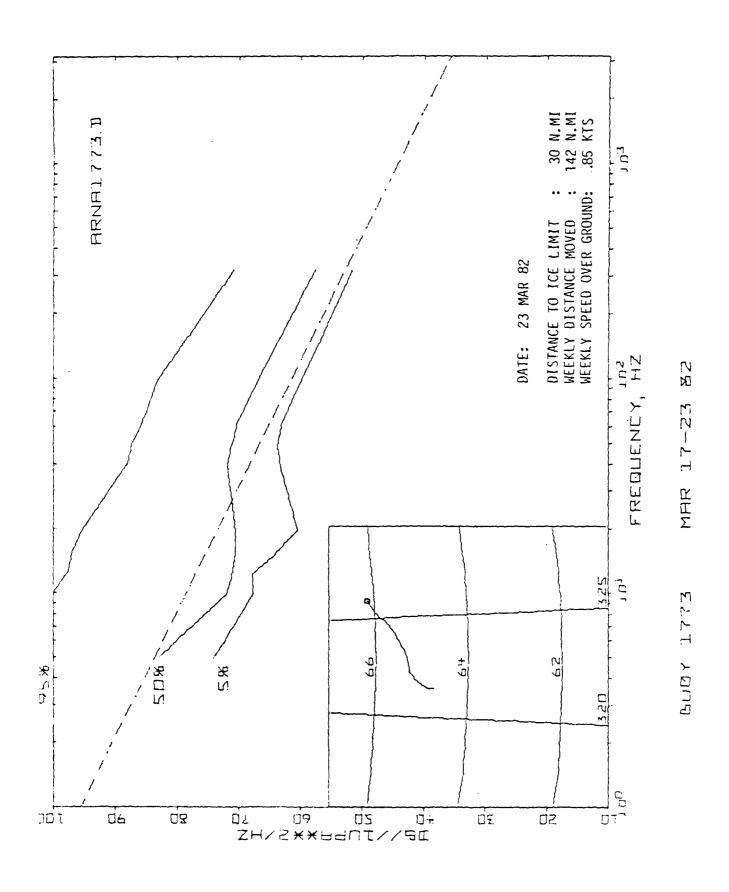




8 OUTPUT IN FILE ARMAI773.0 THE NUMBER OF DATA SAMPLES IS ILLIAN DAYS:

	MAX	114.3	0.801	104.5	04.0	101.2	94.0	93.2	00 00 00	34.7	77.4	
	796	110.2	102.0	77.7	97.0	98.2	0 00 00 00	87.2	ന ന	့ ကိ	70.8	
	20%	109.5	102.0	0.96	94.5	92.0	87.4	85.7	54.7	81.9	70.2	1
			87.8									
MEDIAM	20%	83.0	71.9	70.9	70.4	70.4	71.8	70.9	70.1	66.6	57.5	
Ξ											89°	1 11 1
	10%	74.7	68.4	67.6	64.4	61.3	6.4.9	64.3	62.3	41.4	0. 0.	
	%	74.1	67.6	67.6	63.6	60.3	(M)	63.7	62.8	0 60	51.0	
	Z I Z	72.7	6.03	66.33	62.8	4.00	6.1.4	61.6	62.2	0 0 0	50.1	
STD	IJEV	12.7	12.7	11.6	11.00	6.11	7.00	0.00	7.9	7.8	. Q	
		87.5	78.6	77.7	76.4	74.7	74.4	Υ.	0.00	α • • • • • • • • • • • • • • • • • • •	(A)	
VÜNEHORRE	HZ HZ	ດ. ທ	10.0	(1) (1)	2 : GT	0.00	40.0	0.00	0.59	100.0	320.0	

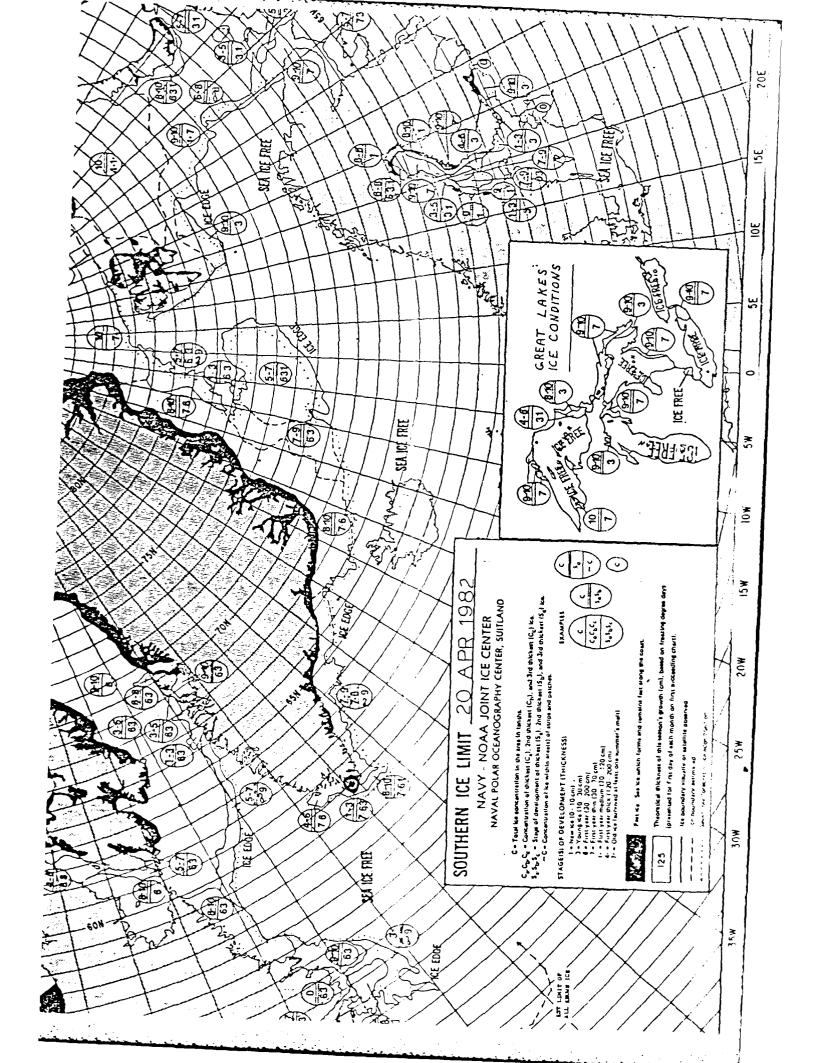
4

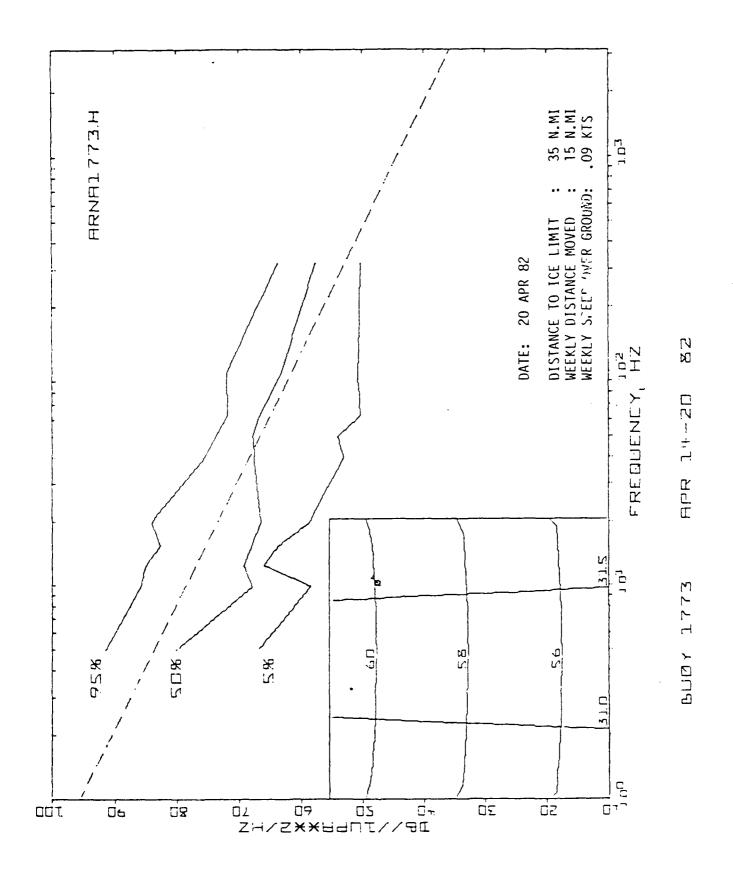


JULIAN DAYS: 111 TO 117 Apr 21-27, 82

CUITPUT IN FILE ARNA1773.1 THE NUMBER OF DATA SAMPLES IS 43

					100.5						
					00 100 100 100 100 100 100 100 100 100						
	20%	93.3	94.4	9.00 00	92.9	92.0	86.8	34.0	0 0 0	80.8	71.4
	75%	95.8	87.1	85.7	84.4	31.7	82.0	31.1	00°0	6.91	68.9
EDIAN	203	37.4	6.11	78.8	78.9	76.4	75.9	76.4	74.2	74.1	8.43
Σ	25%	31.4	75.1	74.4	72.9	70.4	70.9	69.1	69	68, 1	61.3
	10%	76.3	69.1	70.3	69.7	67.3	65.8	63.7	64.1	63.9	56.8
	5.7	70.9	67.6	69.7	67.3	66.3	63.3	61.6	60.6	0. 00 0.	დ დ
	ZIZ	70.9	63.1	66.3	6.6.99	62.8	69.0	80.8	57.5	57.8	52.2
STD	DEV	8.8	0	0.	ហ ល	9.1	o.⊛	0.0	0.1	7.4	6.5
	AVG	37.8	0. 0.	80.4	79.8	78.2	76.3	75.6	74.7	73.2	65.6
FREGUENCY	ZH	င• က	10.0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0





JULIAN DAYS: 104 TO 110 Apr 14-20, 82

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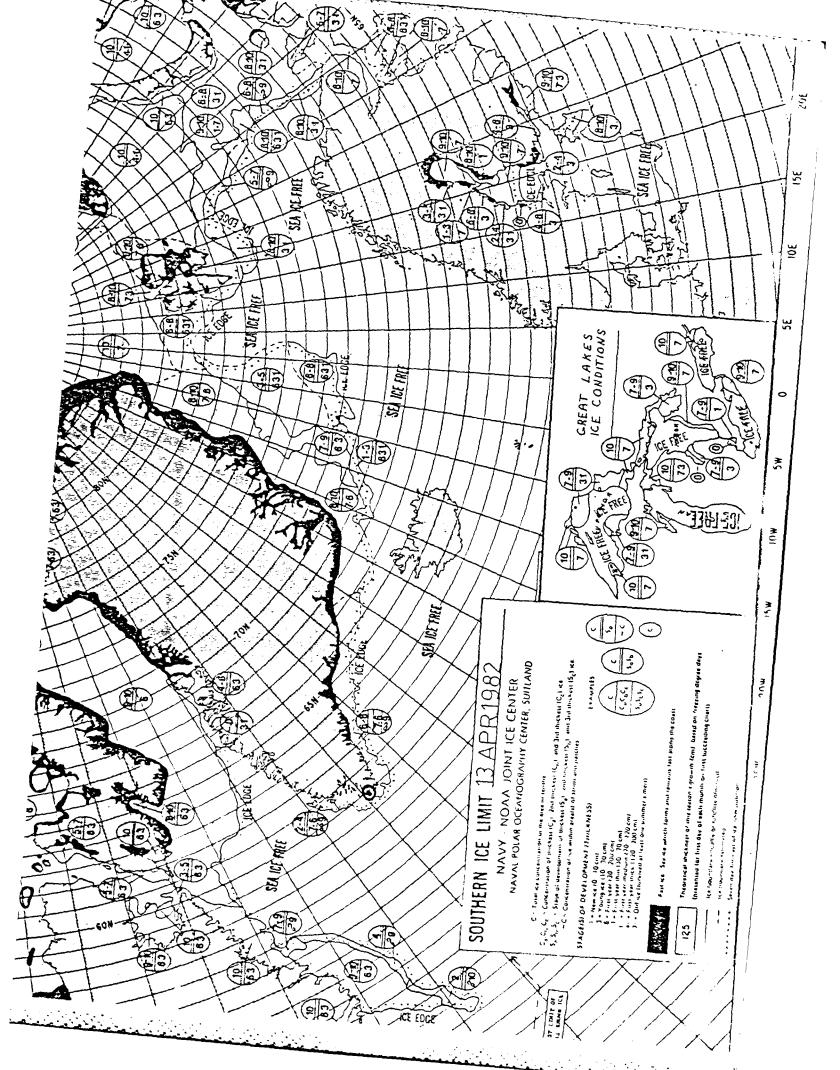
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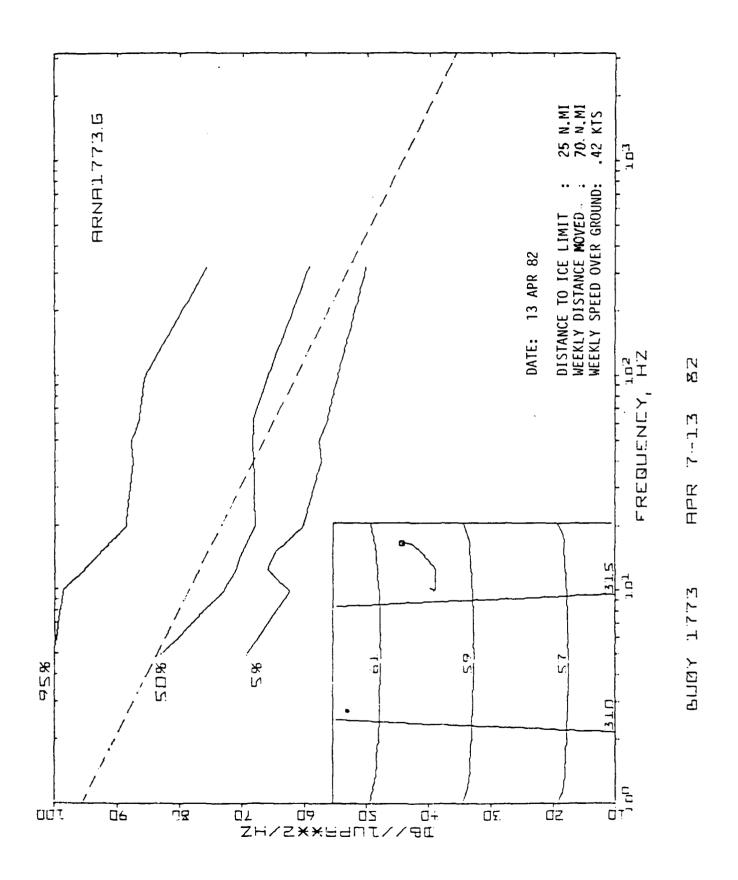
OUTPUT IN FILE ARNAI773.H THE NUMBER OF DATA SAMPLES IS 47

	MAX	106.0	91.7	87.1	82.5	34.0	78.7	75.8	73.5	74.7	66.4
STD MEDIAN	226	91.0	85.7	94.9	82.5	84.0	75.4	73.7	71.7	71.8	60.6
	20%	87.4	13.1	82.0	77.0	80.9	73.4	70.9	70.1	70.9	65.3
	75%	83.0	72.8	74.1	71.1	71.7	70.9	70.9	68.9	67.4	6.0.4
						66.3					
	25%	73.4	62.4	66.8	66.3	61.3	60.6	60.0	60.6	600.00	52.8
	10%	63.1	8.09	62.9	65.7	59.7	00 00 00 00	55.6	54.6	54.6	80.03
						53.4					
						26.8					
	DEV	თ თ	რ დ	6.5	<u>်</u>	7.8	6.9	6.2	6.2	6.1	ပ ()
	AVG	79.2	69.0	71.8	69.0	68.3	85.8	65.7	64.2	63.1	56.7
FREQUENCY	ZH		10.0			20.0					

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JULIAN DAYS: 97 TO 103 Apr 7-13, 82

11/11

OUTPUT IN FILE ARNA1773.0 THE NUMBER OF DATA SAMPLES IS 52

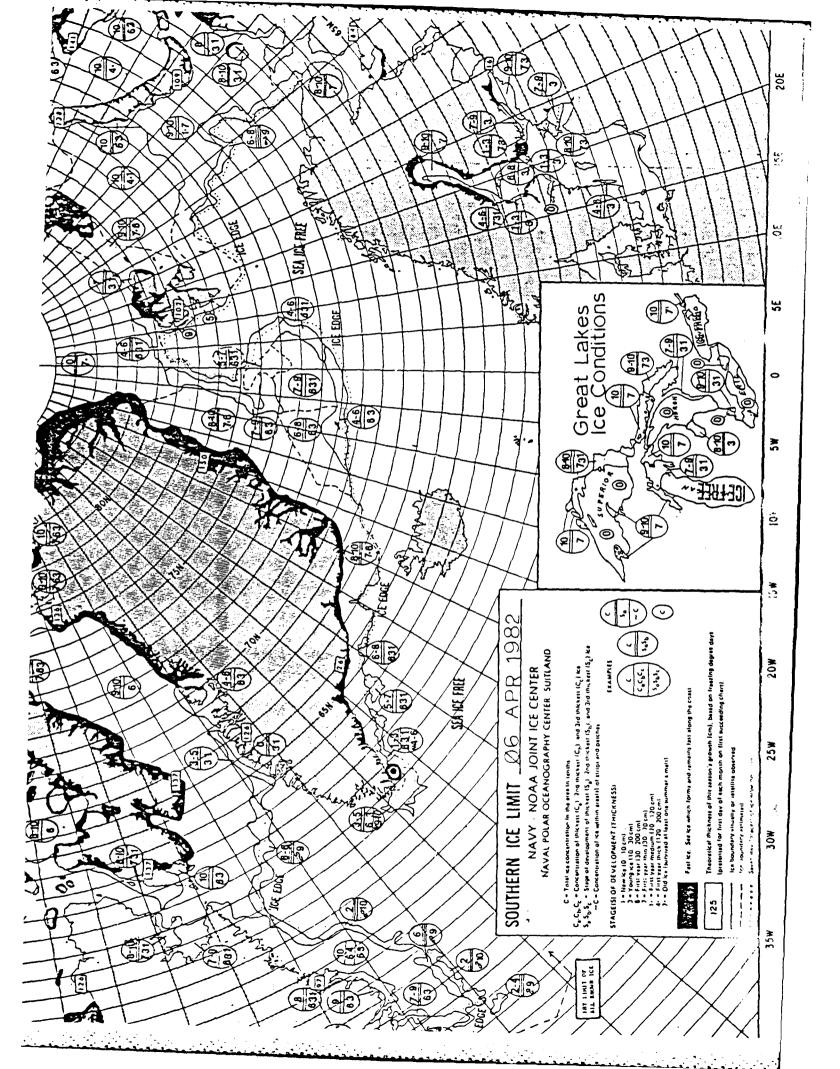
7 104.9 108.0 110.2 7 104.9 108.0 110.2 92.5 98.5 99.2 92.5 95.0 101.0 70.4 92.0 99.8 7 88.5 98.0 87.4 94.0 87.3 92.5 76.3 91.5 75% 96.7 84.9 84.9 84.0 80.0 77.9 77.9 74.9 50% 33.0 72.8 70.9 69.7 67.9 68.1 60.4 60.7 60.0 59.0 MEDIAN 253, 77.8 65.9 65.9 657.6 657.6 657.6 657.6 654.9 654.9 654.1 661.4 10% 21.01 20.01 20.03 DEV 36.5 76.6 74.8 71.9 70.8 70.2 63.6 61.2 FREQUENCY 0.00 10.00 10.00 20.00 40.0 50.0 63.0 100.0 320.0

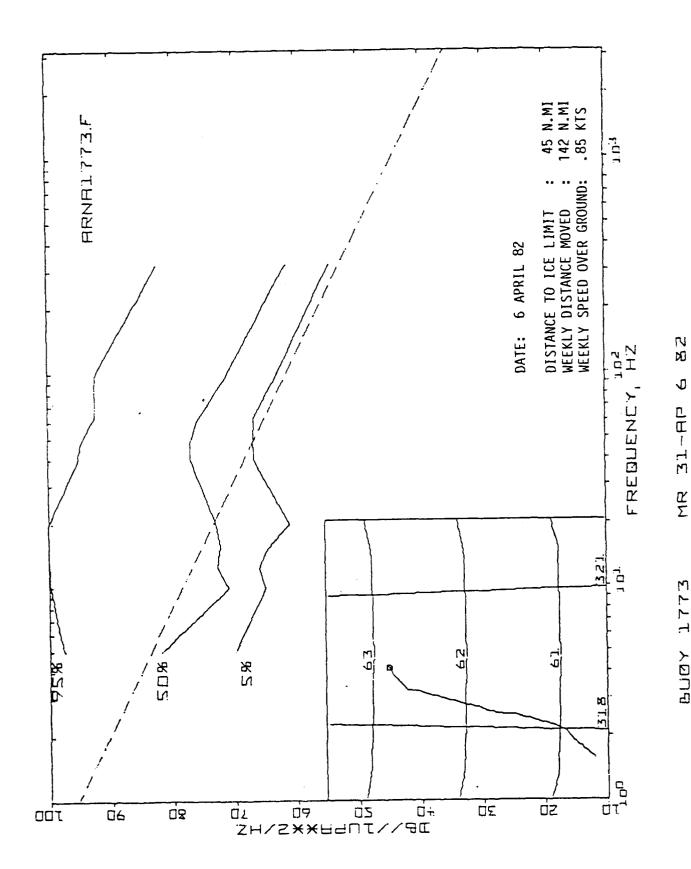
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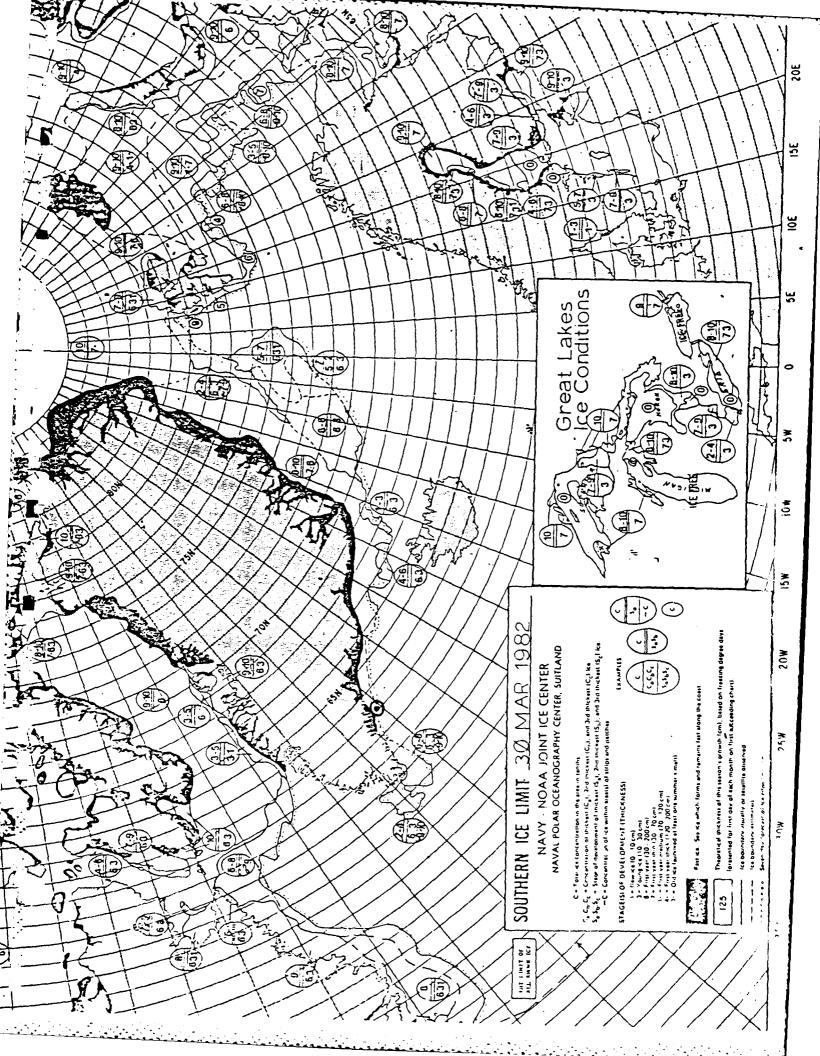
JULIAN DAYS: 90 TO 96 Mar 31 - Apr 6, 82

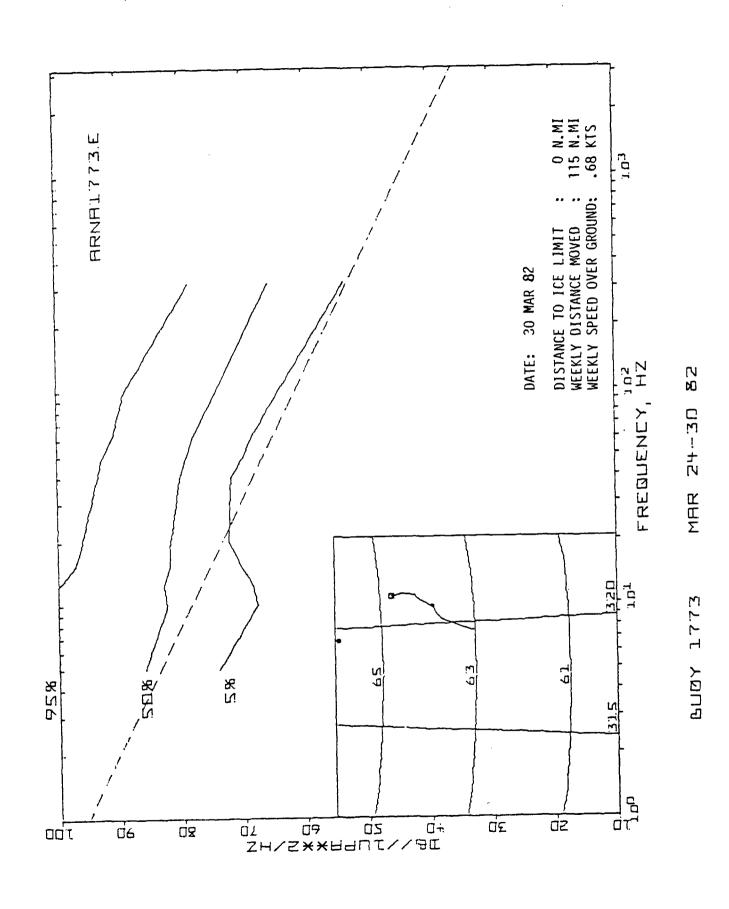
OUTPUT IN FILE ARNA1773.F THE NUMBER OF DATA SAMPLES IS 55

							95.9				
							0.00				
	20%	92.2	82.9	37.8	81.7	80.9	83.0	83.0	00° 00°	81.4	73.3
	75%	86.1	75.1	76.3	77.8	77.8	80.1	78.9	77.8	73.4	65.4
EDIAN	20%	91.9	70.9	72.8	72.3	72.9	77.0	76.97	75.6	70.9	61.3
Ξ	25%	76.97	68.4	63.4	67.3	65.7	72.7	74.4	72.6	66.6	0 0 0
	10%	72.7	64.3	8.99	65.1	62.3	6.69	70.3	69.03	6.43	56.1
	/:	6.69	6.4.9	6.53	64.4	6.09	66.7	8.99	66.6	62.7	54.3
	NIΝ	69.3	S.09	64.9	63.6	000.4	0.09 0.09	6.49	64.7	61.4	52.2
STD	DEV	7.6	0	0	10.5	11.2	7.3	6.7	6.6	6.1	7.9
	AVG	82.5	74.0	75.2	75.1	73.9	77.8	77.7	76.3	72.1	63.7
FREGUENCY	ZH	C M	10,0	12.5	15.6	20.0	40.0	50.0	63.0	100.0	320.0

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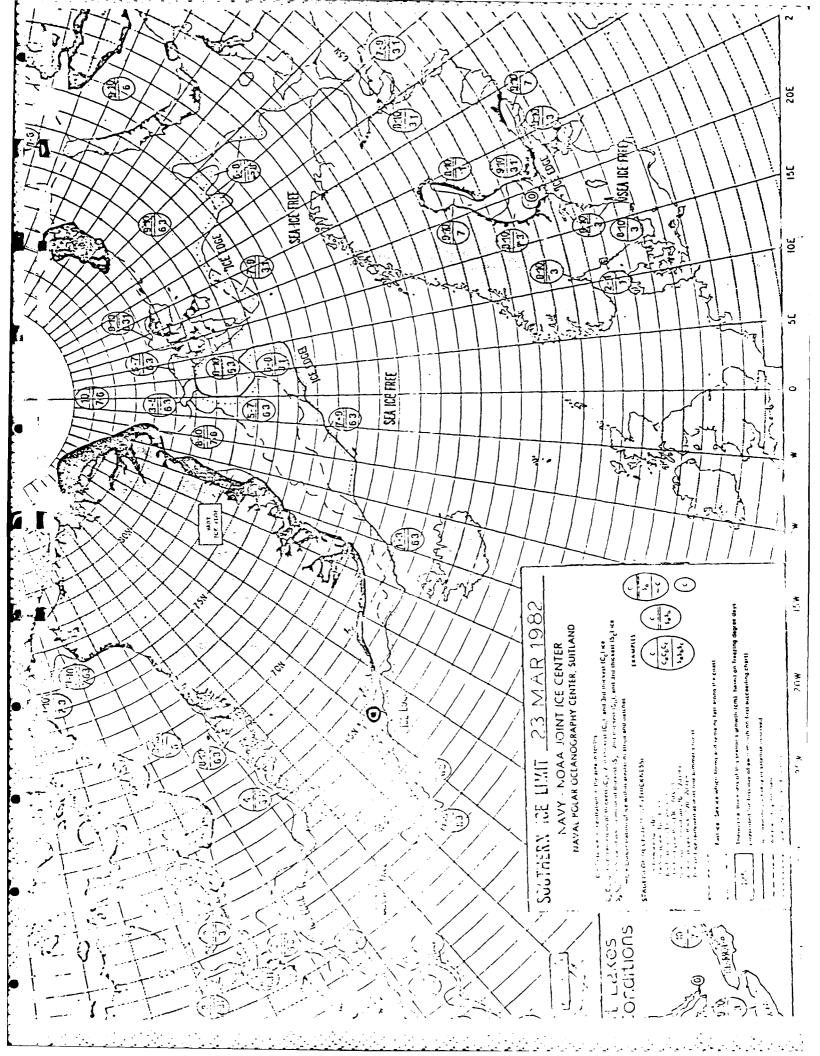
ū

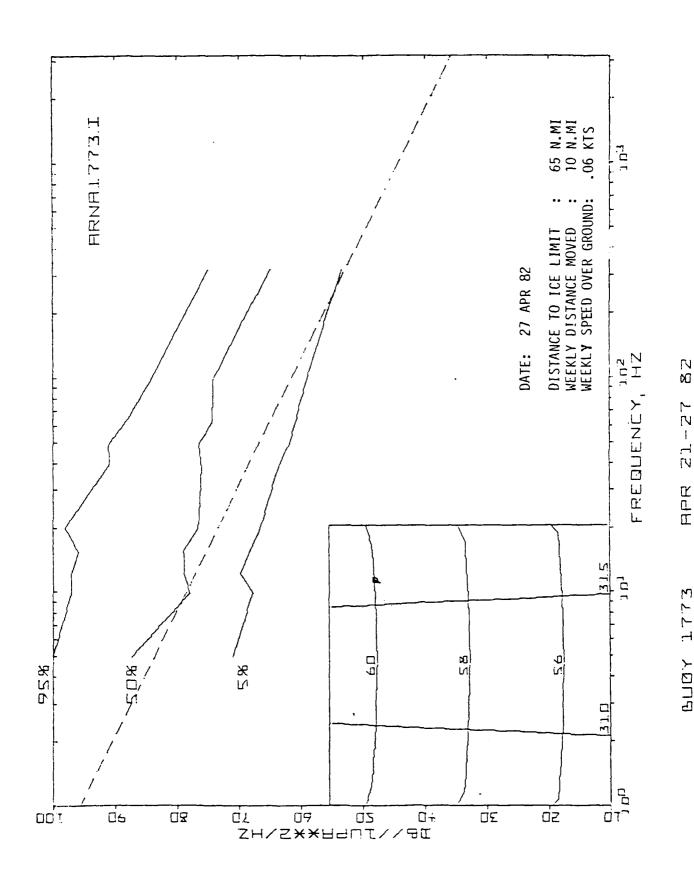
ULIAN DAYS: 83 TO 89 Mar 24-30, 82

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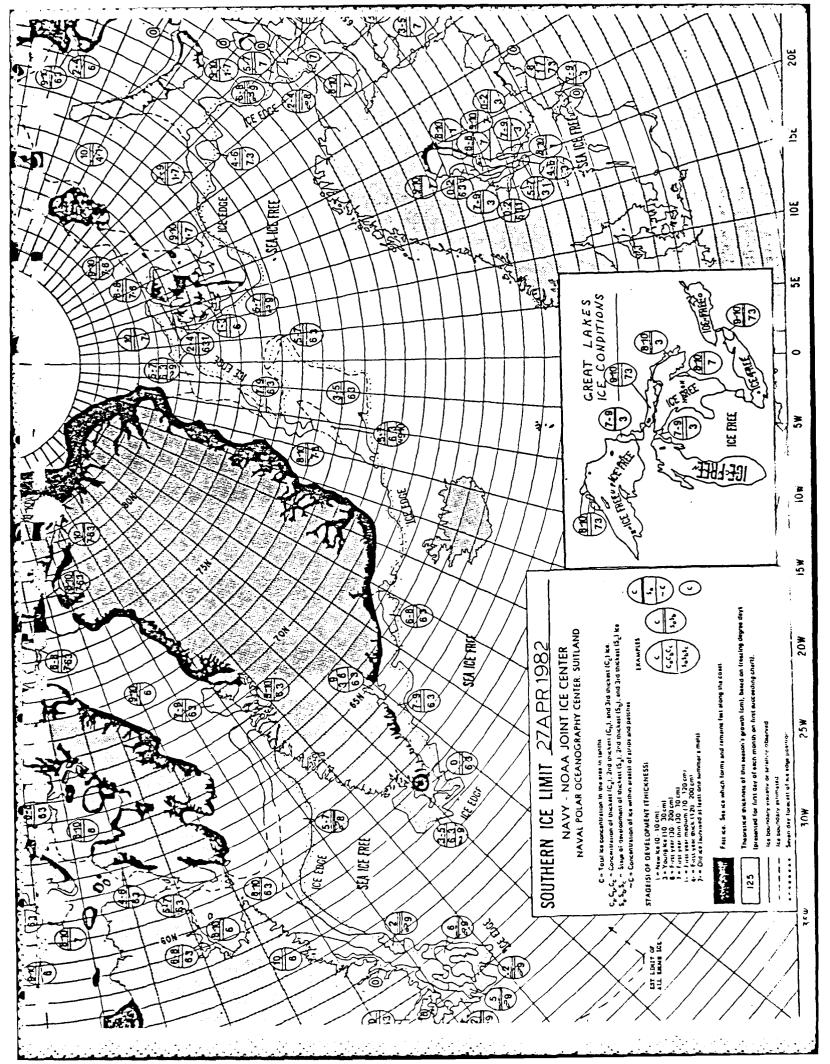
OUTPUT IN FILE ARNAL773.E THE NUMBER OF DATA SAMPLES IS 55

	MAX	113.1	106.5	107.0	105.0	102.5	9. W	40.00	92.3	33.4	84.5
	726	103.0	101.0	100.4	97.0	00 10 10 10	93.4	92.0	90.7	89.0	78.4
	206	106.0	0.96	95.0	3.46	92.9	88.0	0.68	88.2	84.7	75.6
	75%	94.0	88.4	87.1	87.7	37.7	86.8	6.98	00°00	80.8	71.4
FULAN									77.8		
Σ	252	81.9	75.1	74.4	75.7	75.7	75.9	75.1	72.6	68.7	57.5
	10%	77.8	70.3	70.3	72.9	73.9	73.4	71.9	70.1	65.8	54.3
	2%	74.1	67.6	68.4	70.4	72.3	71.8	63.7	68.2	63.9	99°
	ZIN	69.0	6.4.9	67.6	80.00	66.99	68.1	6.3.4	27.4	62.7	51.5
SID	UEV	10.7	10.4	9.6	ω Φ	თ დ	6.9	6.0	٠. ش	7.3	0. 0.
	AVG	0.00	83.1	82.7	83,1	82.7	S1.1	30.2	78.2	75.3	65.6
FREQUENCY	HZ	<u>ာ</u>	10.0	12.5	15.6	20.0	40.0	0.00	63.0	100.0	320.0





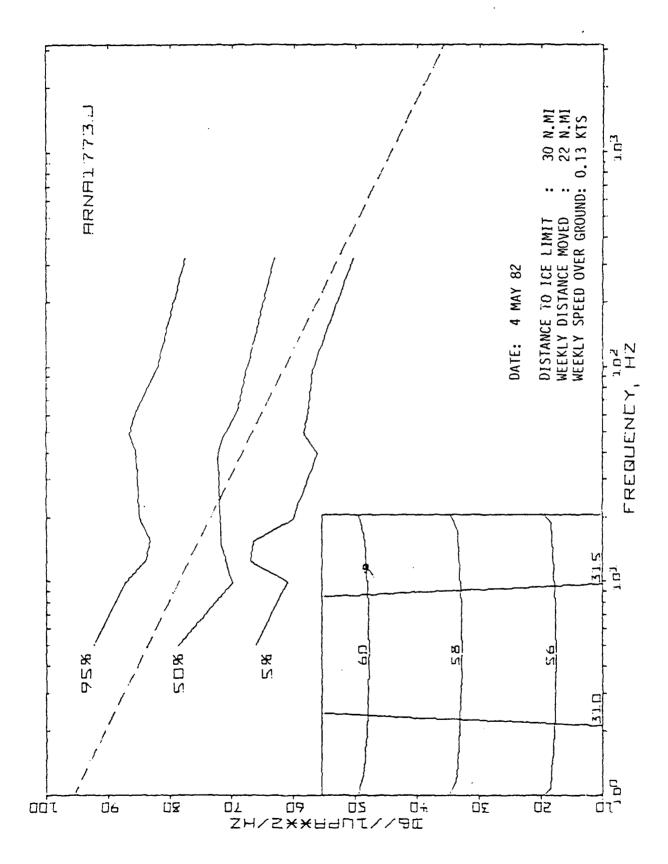
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MULIAN DAYS: 118 TO 124 Apr 28 - May 4, 82

OUTPUT IN FILE ARNA1773.J THE NUMBER OF DATA SAMPLES IS 47

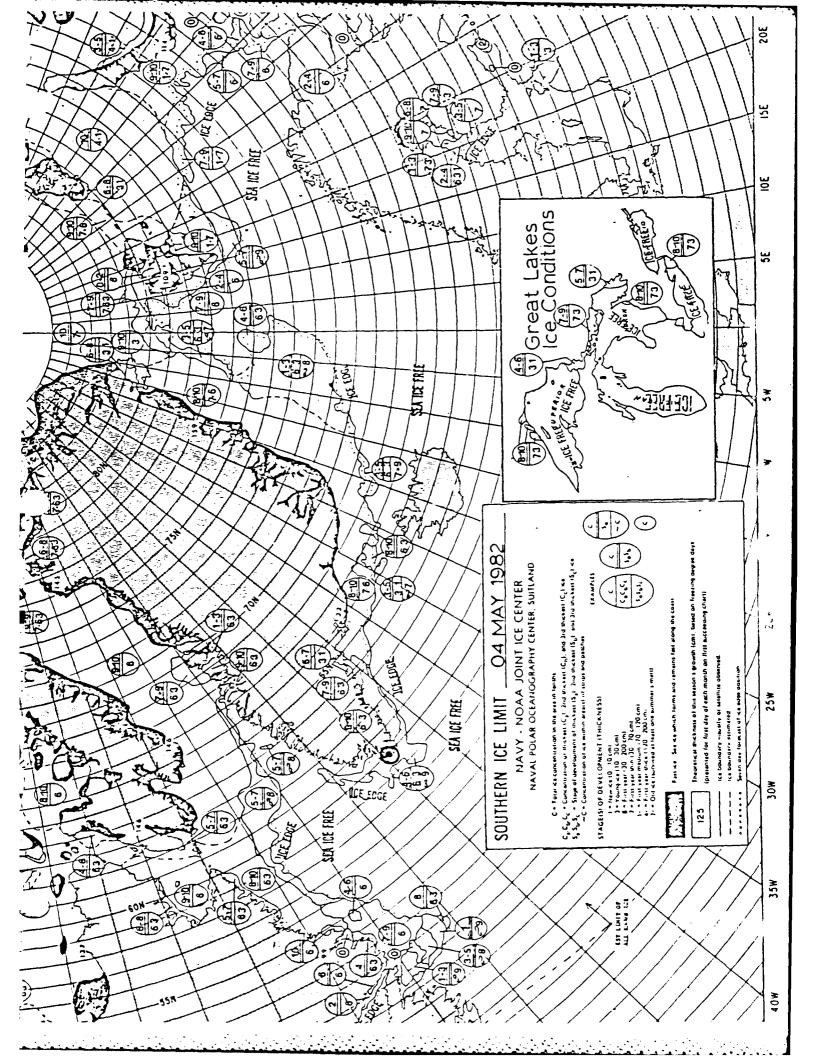
	MAX	101.9	9.3.8	90.0	86.9	02.0	90.7	90.9	00 00 00	0.00	83.4
			87.1								
	20%	0 00 00	84.0	79.0	78.4	80.9	81.4	82.4	დ დ	30,3	72.4
	75%	91.v	75.1	75.7	74.8	76.4	75.9	75.8	76.2	74.7	67.3
EDIAN	20%	78.7	1.69	70.9	71.7	71.7	72.2	70.9	68.9	67.4	62.3
ME	25%	73.4	66.8	63.4	67.9	65.7	60.0	6. 49	64.1	6.1.4	0.6 0.0
			63.7								
	2%	65.0	60.8	66.0	66.3	59.7	56.1	00 00 00 00 00 00 00 00 00 00 00 00 00	57.5	56.7	50.2
	MIN	65.0	60.60	66.8	6.6.3	59.1	60.00	00.00 00.00	55.6	S. 03	50.1
STD	ΓEV	7.6	Ю	5.6	0.0	7.3	0) C4	တ တ	00 0v	មា ១១	63.1 7.9
	AVG	78.6	72.0	72.9	72.5	71.4	71.4	71.2	70.2	68.3	63.1
FREQUENCY		ල. ග	10.0	12.5	15.6	20.0	40.0	50.0	0.89	100.0	320.0



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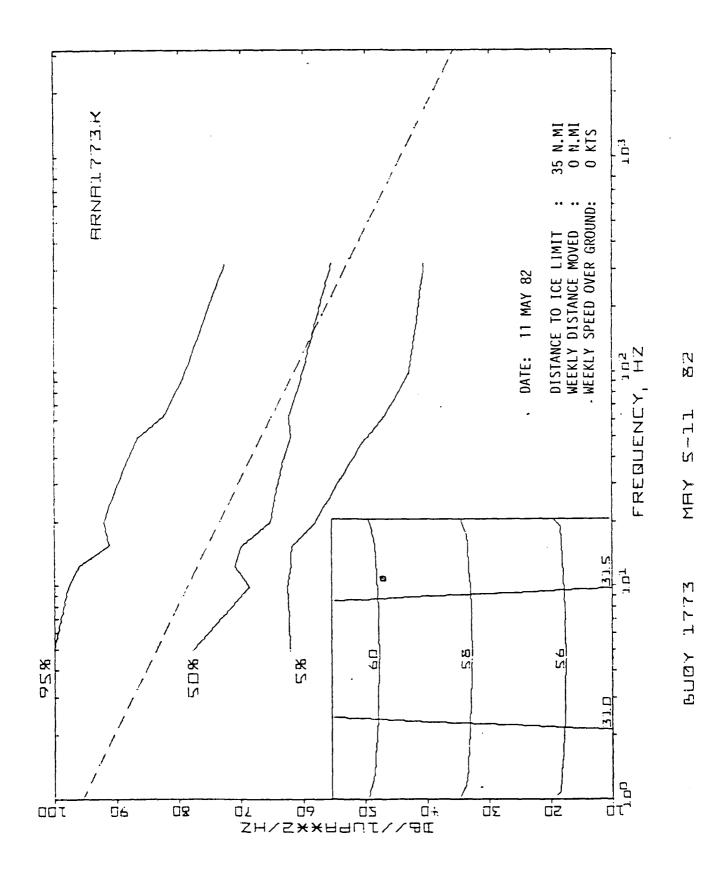
AP ZB-MY 4 BZ

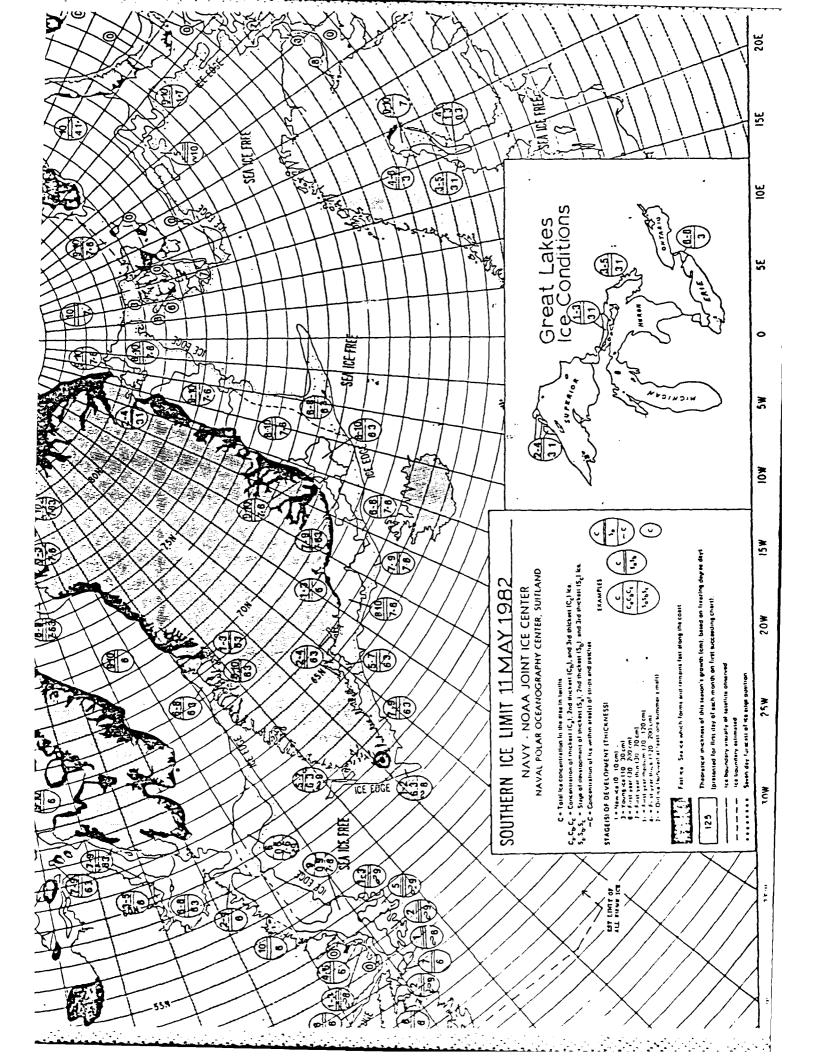


JULIAN DAYS: 125 TO 131 May 5-11, 82

GUTFUT IN FILE ARNA1773.K THE NUMBER OF DATA SAMPLES IS 38

REGUENCY		STD				Ξ	1EDIAN				
H7	AVG		NIN		10%	25%	20%	75%	20%	796	MAX
C V	8.7		61.0	61.9	69.09	63.7	77.8	86.0	27.5	102.8	106.0
0.01	74.0		0.09	62.4	62.9	6.43	68.4	∞. ∞.	90.0	57.7	101.0
が の 1	75.2		41.1	81.8	65.3	66.5	70.9	84.0	90.0	96.0	101.0
) Y	7 07		60,04	6.1.7	62.5	66.9	69.7	78.9	00 00 00	91.0	98.9
00.00 00.00	70.7		0.75	57.8	00.4	60.00	65.1	73.0	87.7	92.0	93.9
0.04	0 44		C:	00 15	53.4	ر ارون ارون	63.0	74.8	83.9	0.00	94.0
	1 DY		4.0.7	49.7	30.9	5.6	61.3	74.4	31.1	8%.3	39.0
0.00	0 07		7 . 7	44.6	000	53.7	62.2	69 69	78.7	82.2	84.7
0.00	¥ 04		42.1	42.7	47.4	00	0. 0.	6.8.9	75.3	78.7	80.1
300.0) (0)) (1)) (1)	10.6	40.4	40.4	42.1	48.1	(M)	64.8	70.2	72.4	81.6
,	1			1							

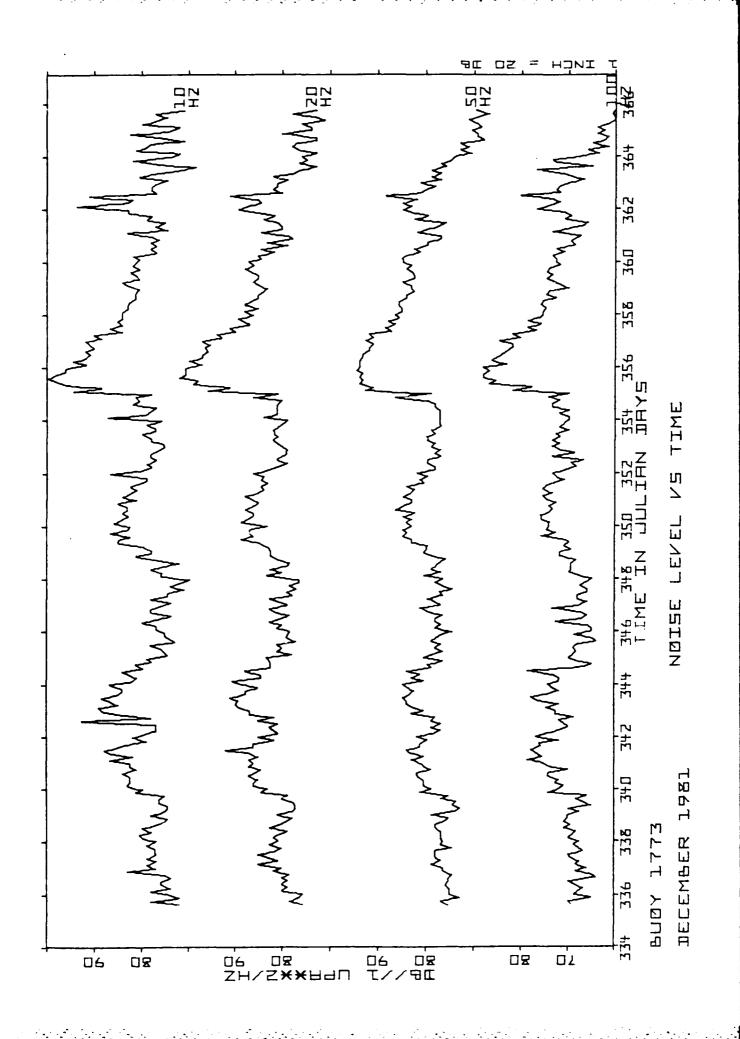


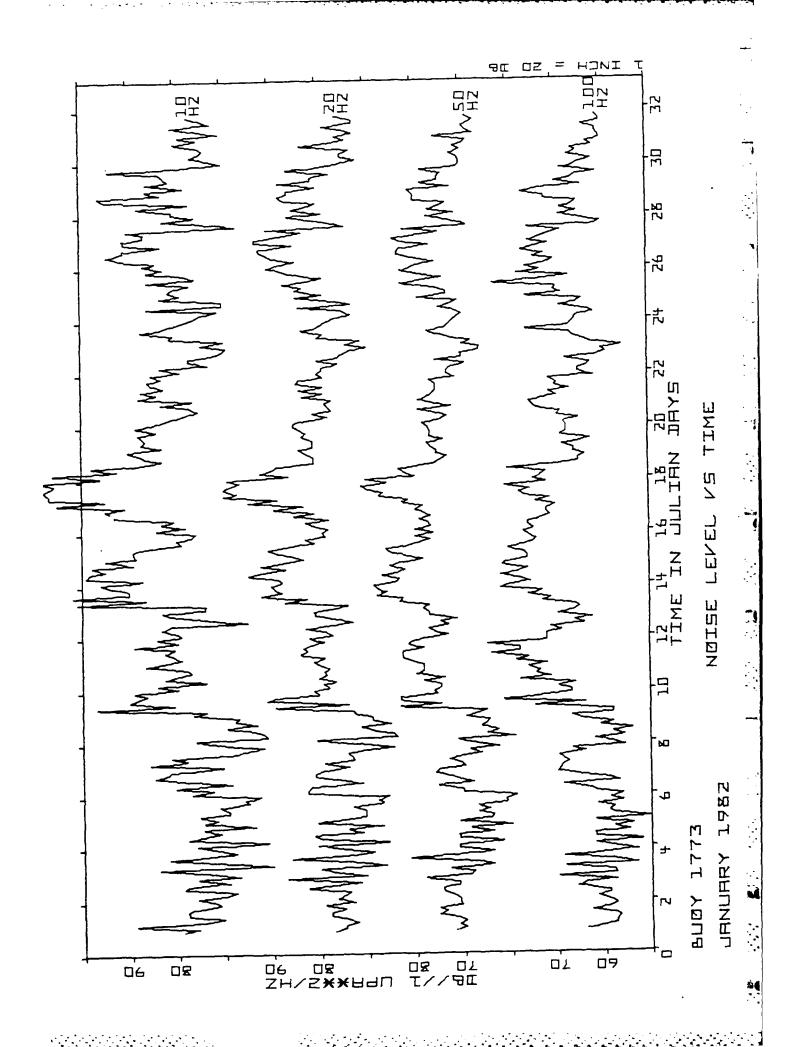


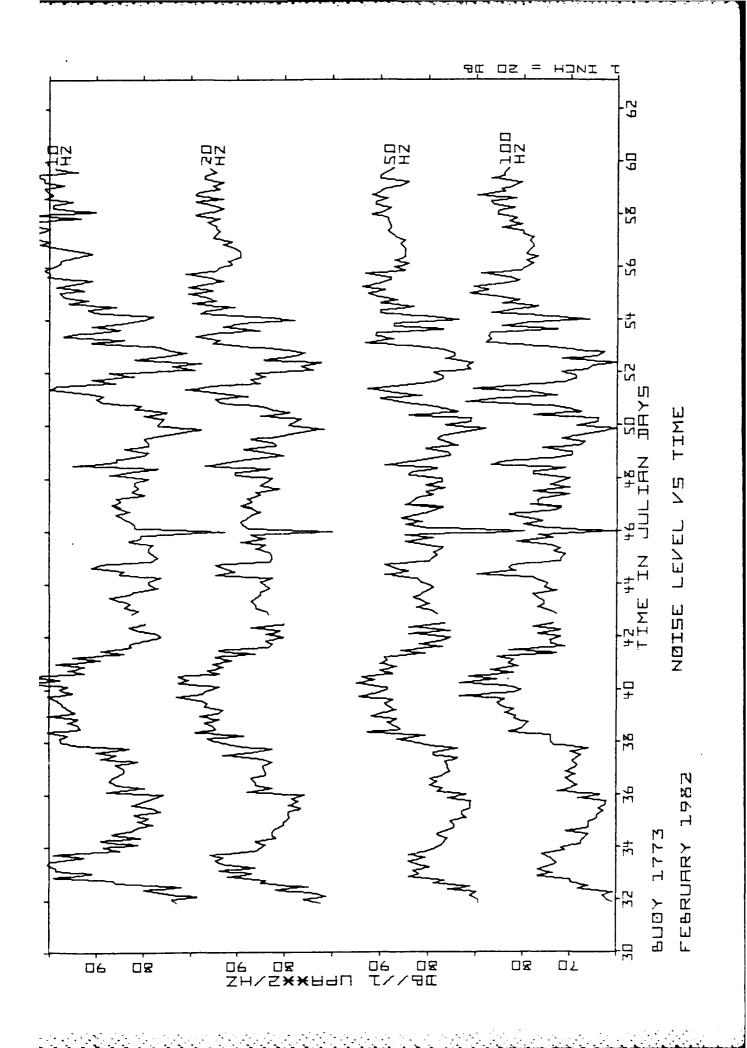
JULIAN DAYS: 132 TO 138

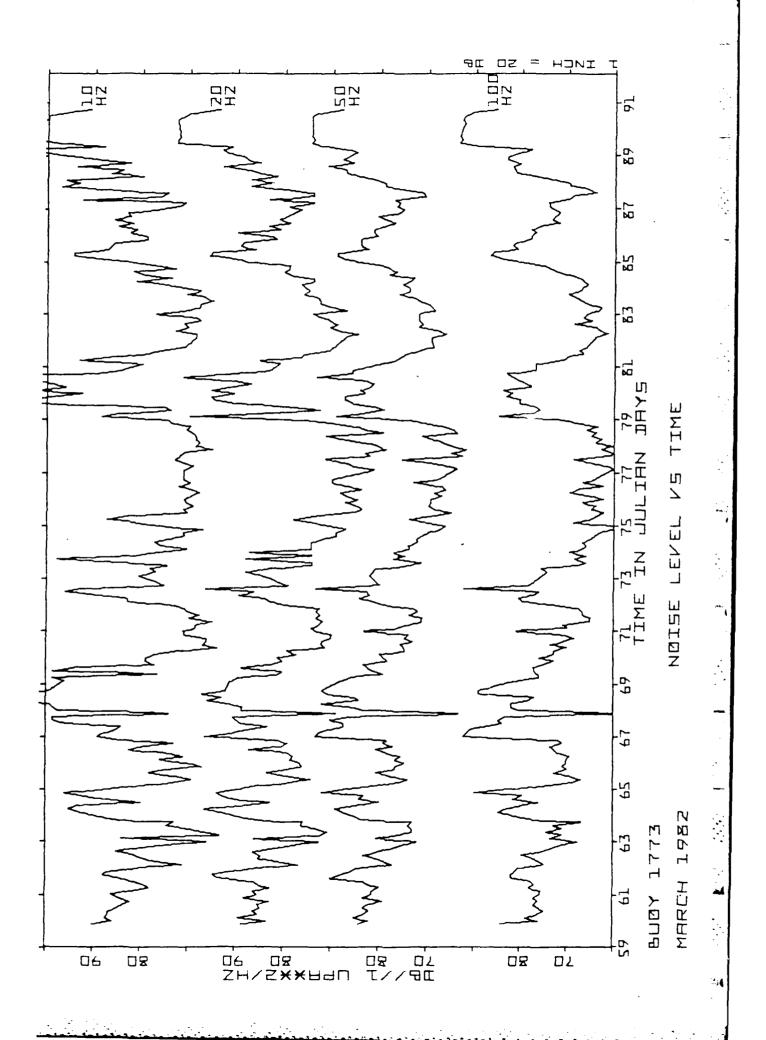
OUTPUT IN FILE ARNA1773.L THE NUMBER OF DATA SAMPLES IS 20

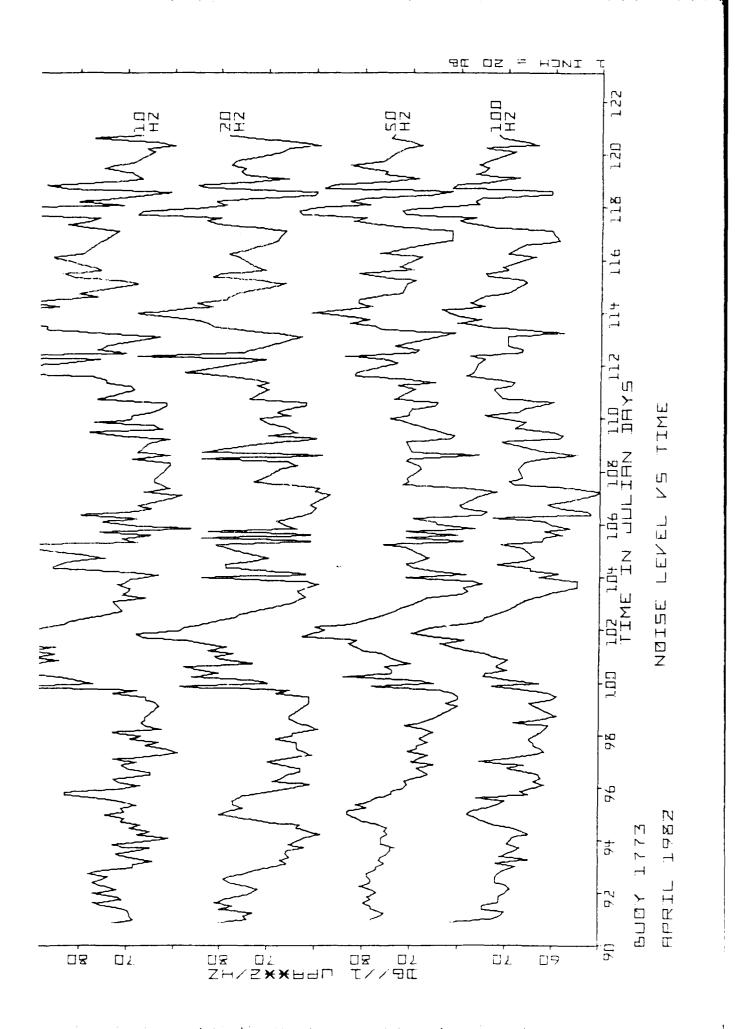
	MAX	37.0	79.8	95.2	78.9	79.9	72.2	6.07	65.7	64.0	60.4
	35%	87.0	78.8	84.5	78.0	77.0	72.2	70.9	65. U	63.9	რ ტ
										63.0	
	75%	31.4	70.9	70.0	72.0	711.7	60.09	(n) (n)	50.0	41.4	62.2
MEDIAN	20%	75.3	6.4.9	6.53	65, 1	6.5	54.6	55.6	53.7	52.8	30°
Σ	25%										49.6
	10%									43.1	
											40.4
										4.3.9	
STD										တ ဟ	
	AVG	76.4	67.0	62.6	ر 1000 1000	67.3	59.8	53.7	0.98	6. 10	50.2
FREGUENCY	HZ	0.0	10.0	12.0	15, 6	20.0	40,0	0.00	63.0	100.0	320.0



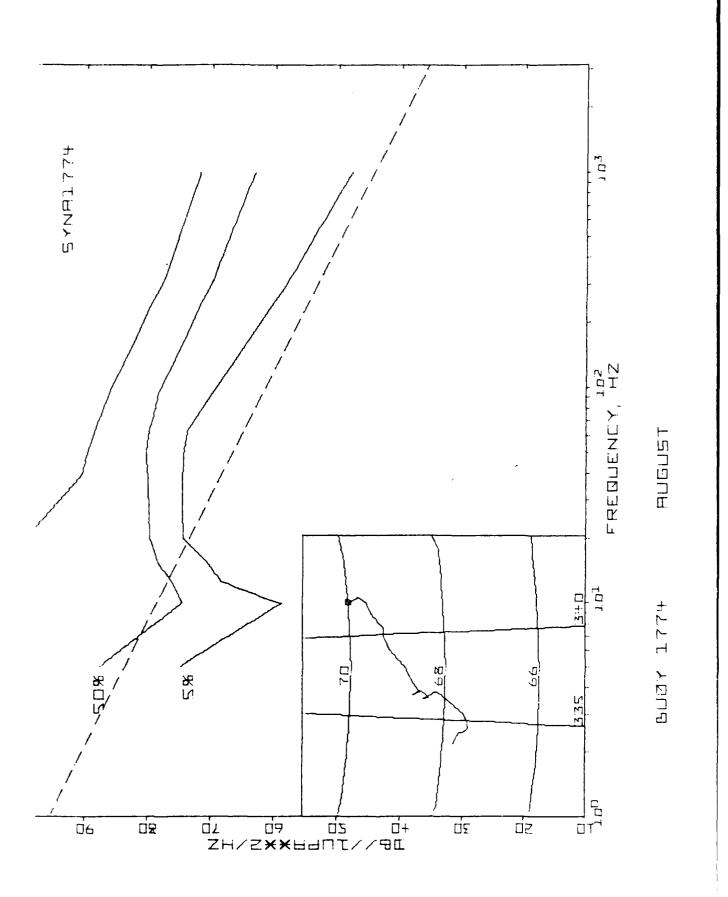








DATA BY WEEKS



BUCY: MONTH: AUGUST 1981

1774

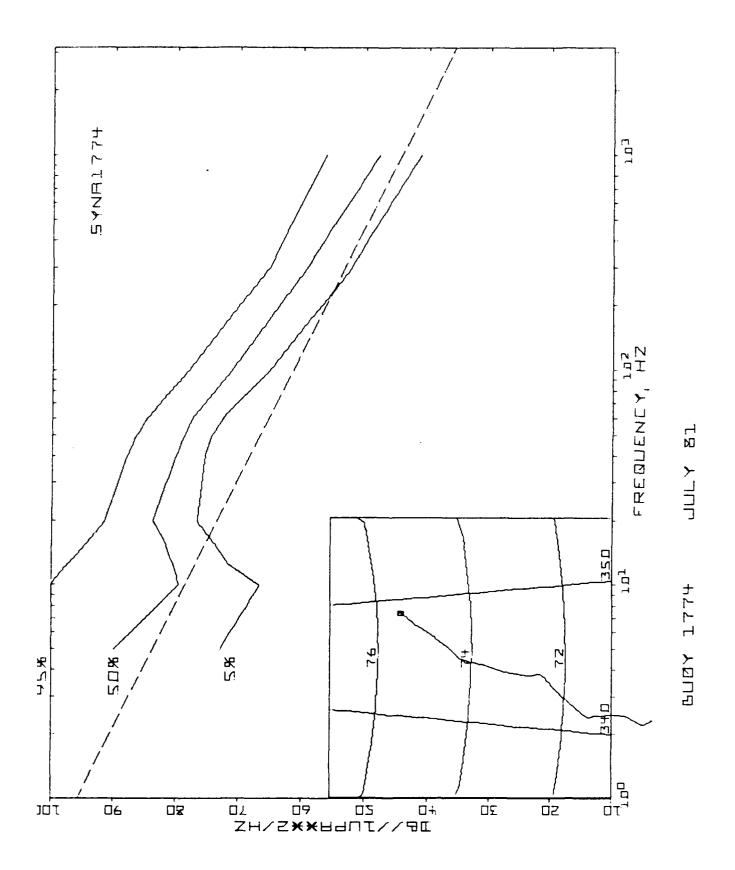
OUTPUT IN FILE SYNA1774

DISPLACEMENT (N. MI.): 219.716 NORTH:-136.620 EAST:-172.076 DIRECTION (TRUE): 231.579

THE NUMBER OF DATA SAMPLES IS 184

116.5 110.6 100.8 100.8 100.8 93.9 93.9 91.0 91.8 73.4 1114.9 108.1 106.2 104.0 99.7 90.4 88.5 88.5 77.5 71.8 112.4 106.1 102.2 99.8 95.6 89.5 87.9 86.6 83.0 76.6 83.0 75% 99.1 85.6 84.2 87.1 87.1 83.7 83.1 73.8 67.4 50% 37.7 74.4 76.1 76.1 78.5 80.0 80.4 77.8 73.0 MEDIA! 71.5 77.5 77.6 77.6 77.6 77.6 76.9 76.9 76.9 10% 76.8 61.5 64.5 669.2 75.0 75.0 75.8 74.5 74.5 48.3 R RENAME SYNP (F,T,A)1774.<,18> R MIN 70.8 53.3 67.9 72.4 71.4 72.6 66.9 45.8 12.5 14.9 11.0 9.0 STD 90.3 78.4 80.0 831.5 82.5 81.3 80.1 77.4 FREQUENCY 5.0 12.5 16.0 20.0 40.0 50.0 63.0 100.0 100.0

73



MONTH: JULY 1981

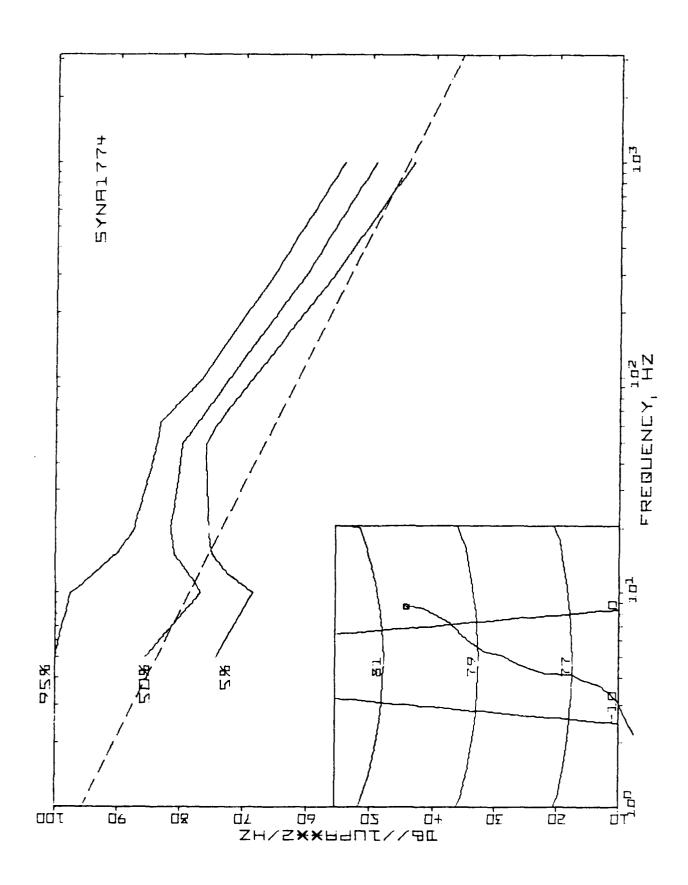
RU0Y: 1774

OUTPUT IN FILE SYNA1774

DISPLACEMENT (N. MI.): 350.352 NORTH:-323.881 EAST:-133.595 DIRECTION (TRUE): 202.436

THE NUMBER OF DATA SAMPLES IS 248

	z	248	248	248	248	243	248	248	248	248	248	248				
	MAX	114.0	106.1	104.4	102.6	93.5	91.2	91.6	86.6	81.9	0.69	60.3				
	756								84.1							
	206	106.4	96.6	93.3	90.5	83.7	86.7	84.7	83.1	75.8	63.6	54.3				
	75%								79.8							
MEDIAN									77.0							
Ξ	25%	80.3	73.5	75.2	78.5	80.5	78.4	77.1	75.2	68.5	55.7	44.2				
	10%	75.6	68.4	72.7	75.7	78.4	76.4	75.8	72.9	6.99	89°	42.3				
	2%	72.7	66.5	71.5	73.9	76.6	75.3	74.4	72.0	65.0	51.5	41.1			<u>ئ</u>	
	Σ	64.3	62.4	69.2	70.7	73.8	72.3	71.6	8.69	62.5	49.7	39.0			,A)1774.<,17>	
STD	DEV	12.1	10.7	3,2	6.1	4.5	3.9	3.7	3.6	3.7	4.0	4.7			, A) 177	
									77.6						SYN(P,T	
FREQUENCY	ZH	0 0	10.0	12.5	16.0	20.0	40.0	50.0	63.0	100.0	315.0	1000.0	STOP	œ	RENAME S	œ



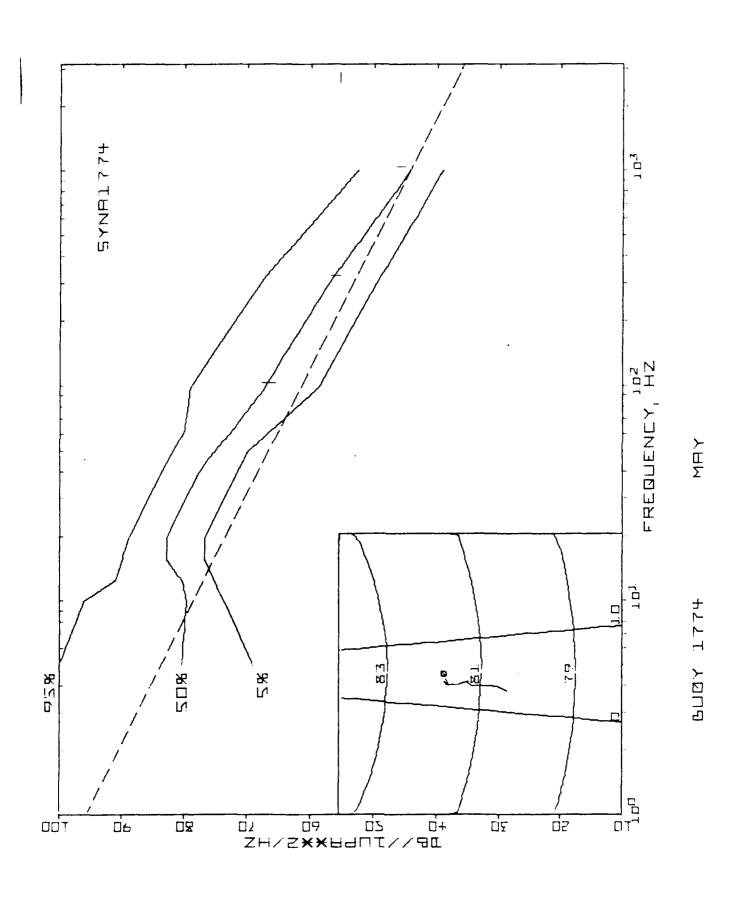
MONTH: JUNE 1981 BUIGY: 1774

COUTPUT IN FILE SYNA1774

DISPLACEMENT (N. MI.): 336.071 NORTH:-290.880 EAST:-168.322 DIRECTION (TRUE): 210.079

THE NUMBER OF DATA SAMPLES IS 232

	z	232	232	232	232	232	232	232	232	232	232	232	! ! !			
	MAX	110.4	102.6	100.9	98.0	92.5	87.9	89.7	87.3	30.5	49.6	57.1				
	95%	106.4	97.6	93.3	89.7	87.1	84.4	83.7	83.1	76.4	64.6	54.3				
	206	105, 1	95.4	91.4	83.8	82.8	83°B	83.7	81.9	75.3	63.6	54.3				
	75%	100.9	88.1	34.8	83.7	34.4	81.3	31.2	79.8	73.8	61.8	52.5				
MEDIAN	20%	85.6	76.7	78.7	81.2	81.6	0.03	79.6	77.0	72.0	59.5	49.3				
Ξ	25%	80.3	73.5	76.1	78.5	79.8	78.4	77.6	75.9	70.4	57.0	45.8				
	10%	76.2	70.7	7.3.3	75.7	77.5	76.4	75.8	74.5	69.2	0.00	44.2				
	%5	74.3	68.4	72.7	75.1	75.6	75.9	75.8	73.8	69.5	55.0	43.3			\$	
	MIN	68.3	63.2	69.2	70.7	73.8	73.9	72.6	72.9	65.0	93° 51	42.3			A) 1774. <, 165	
STD	DEV	11.0	9.6	6.7	4.7	3.4	2.6	% %	2.9	2.7	ი ზ	9°8				
	AVG	89.0	80.2	80.7	81.6	35.0	80.0	79.6	78.1	72.4	59.6	49.2			SYN(P, T	
FREQUENCY	HZ	0.0	10.0	12.5	16.0	20.0	40.0	20.0	63.0	100.0	315.0	1000.0	STOP	œ	RENAME S	œ



MONTH: MAY 1981

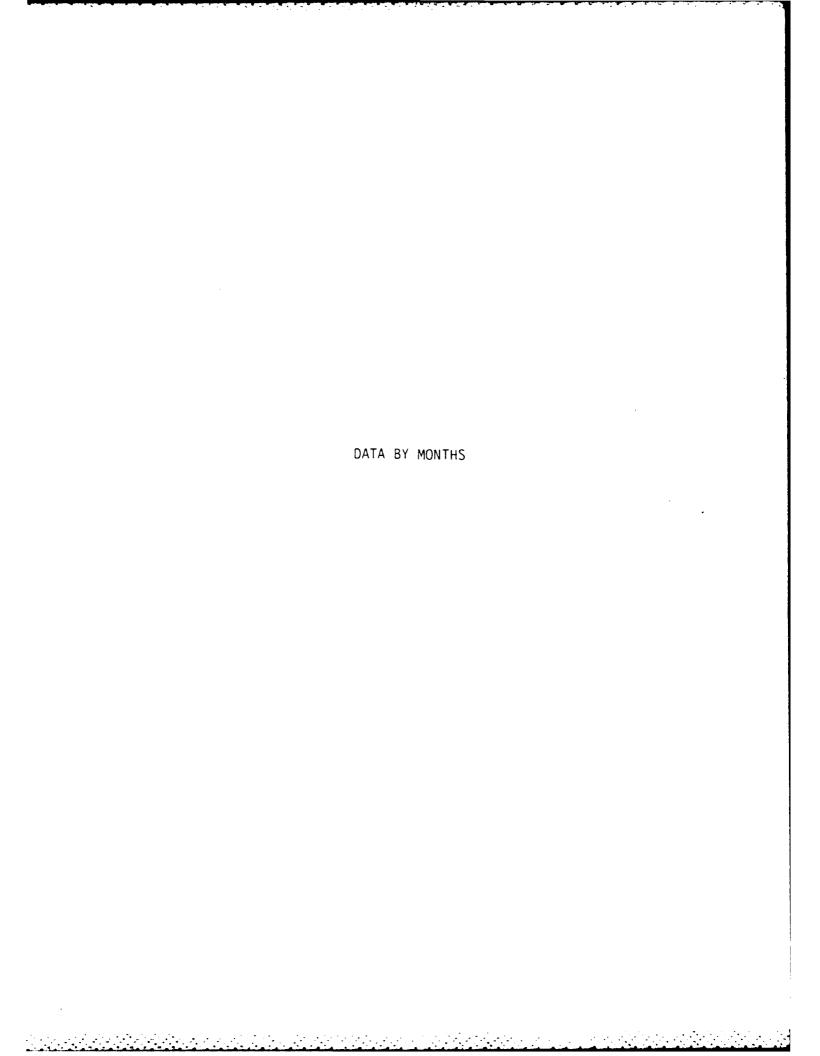
BUCY: 1774

OUTPUT IN FILE SYNA1774

DISPLACEMENT (N. MI.): 85.450 NORTH: -82.379 EAST: -22.701 DIRECTION (TRUE): 195.427

THE NUMBER OF DATA SAMPLES IS 247

FREQUENCY		STD				Σ	MEDIAN					
ZH	92	nEV	NΙΣ	2%	10%	25%	20%	75%	206	756	MAX	z
5.0	4.0	11.9	58.7	0.69	70.8	74.3	81.0	94.3	101.9	104.4	_	247
10.0	1.4	6.7	71.3	73.5	74.4	76.7	79.5	84.5	90.6	96.0	_	247
12.5	2.0	6.4	72.7	75.2	76.8	79.3	80.3	84.8	88.8	90.08		247
16.0	2.8	4.0	74.5	76.7	78.5	79.9	85.8	85,3	87.8	89.7		247
20.0	2.6	9. 10	73.8	76.6	78.4	80.3	82.7	84.4	87.7	88.7		247
40.0	7.3	3.6	67.2	71.4	72.3	75.3	77.5	79.2	81.9	83,5	86.0	247
20.0	ල ග	3.7	65.6	69.7	71.0	72.6	75.1	77.6	80.4	81.8		247
63.0	2.3	4.3	61.7	66.0	66.99	69.2	72.0	74.5	78.1	79.8		247
100.0	7.3	9.0	53.9	58.4	53.9	63.5	6.99	71.0	75.2	78.9		247
315.0	6.7	5.6	43.0	49.0	49.7	51. R	56.4	60.3	64.6	67.1		247
1000.0	4.8	4.6	36.3	38.0	39.0	41.1	44.2	48.3	50.2	52.5		247
STOP												
œ												
RENAME S	SYN(P, T	•	A)1774. C, 15>	6								
α												



BUCY ITC 1774

JULY 1981

DAY	GMT	POSITION		DAY	GMT	PQ:	311	TON	
182	1630	75.490 N 11.312	W	198	1702	72.254	N	17,056	W
183	1607	75.369 N 11.802	W			72,164			
184	1545	75.202 N 12.364	W			72.052			
185	1703	74.988 N 12.881	W			71.818			
184	1656	74,720 N.13,609	W			71.539			
187	1645	74.501 N 14.261	W			71.425			
188	1634	74.382 N 14.708	W			71.338			
189	1703	74.227 N 15.233	W			71.143			
190	1648	74.106 N 15.360	W			71.014			
191	1625	73.877 N 15.548	W			70.812			
192	1602	73.578 N 15,776	W			70,598			
		73.306 N 16.119				70.457			
194	1703	73.079 N 16.232	W			70.393		· - · •	
		72.791 N 16.328				70.280			• •
		72.527 N 16,100				70.092			
		72,357 N 16,611		* 4.4		* ** ** *** ***	• •	a company	**

BUOY ID 1774

AUGUST 1981

ĐΑΥ	GMT	Pos	TTION		Ľ) É	¥Υ	IBMT	PO	317	TON	
213	1653	70.061	N 18.310	W	22	55	1651	68.532	Ν	23.315	W
214	1641	69.977	N 17.969	W	23	26	1629	68,336	Ν	23.756	W
215	1629	69.768	N 17.760	W	سرو مر کاف کاف	27	1606	68.447	Ν	23.826	W
216	1656	69.59 3	N 18.111	W	7.7	3	1542	68,195	Ν	23.400	W
217	1634	69.494	N 18.938	W	22	29	1703	47,905	Ν	23.945	W
218	1611	69.364	N 19,395	W	23	Ō	1701	67,567	Ν	24.625	W
219	1544	69.259	N 19.760	W	23	11	1649	67.493	Ν	25.046	W
220	1703	69.270 (N 20.314	W	23	12	1633	67.473	N	25.341	W
			N 21.095							25.608	
222	1651	48.840 I	N 22.025	W						25.641	
			N 23.487							26.278	
224	1700	49 470 1	N 00 445	L1							

BUOY ID 1774

MAY 1981

DAY	GMT	POSIT	TON		DA'	Y GM	Т	Piji	31T	TUN	
121	1614	81.818 N	5.163	E	13	7 165	2	81.542	Ν	3.363	E
122	1551	81.802 N	5.017	E	13:	3 162	7	81.343	N	3,909	Œ
123	1702	81.802 N	5.017	F	131	2 160	Ö	81.343	N	3.909	F
124	1645	81.791 N	4.275	E	1 4	154	2	31.271	Ν	3.954	Æ
125	1623	81.765 N	3.957	F	14	165	8	81.325	Ν	3.727	E
126	1601	81.741 N	3.698	F	1.4	163	ē	81.202	N	3,275	Œ
127	1536	81.718 N	3.465	E.	14:	3 161	4	81.101	N	3.371	F.
128	1655	31.690 N	3.307	E	144	155	2	81.101	Ν	3.371	E
129	1633	81.721 N	3.440	E	14:	5 170	2	81.101	N	3.371	Г
130	1610	81.806 N	3.871	E				80,857		3.392	
131 -	1546	81.804 N	3.787	F.	147	1.62	4	80.803	IJ	3.383	F
132	1702	81.744 N	3.278	E	149			80.803		3.383	*
		81.629 N	3.334	Ē	144			80.803		3.383	
		81.629 N	3.334	E	150	- '		80.513	•	2.973	
		81.614 N	3.564		151			80.445		2.711	
		E1 A14 N	3 564		J 1,! /	1 (2)(2)	. '	ov. HHU	14	2.713	Γ.

BUOY ID 1774

JUNE 1981

DAY	GMT	POSIT	ION		CIAY	GMT	POS	317	FION	
152	1612	80.445 N	2.711	E	167	1703	77.533	И	5.674	W
153	1549	80.445 N	2.711	E	168	1649	77.196	N	5.652	W
154	1703	80.119 N	2.329	E	169	1626	76.966	Ν	5.755	W
155	1644	80.008 N	1.800	E	170	1603	76.819	Ν	6.138	W
156	1621	80.008 N	1.800	E	171	1540	76.680	N	6.386	W
157	1558	80.008 N	1.800	Ę	172	1656	76.530	Ν	A.504	W
158	1535	79,603 N	0.184	F.	173	1635	74.385	N	6.722	W
159	1652	79.460 N	0.452	W	174	1612	76.147	Ν	7.423	W
160	1629	79.379 N	1.010	W	175	1549	75.980	Ν	8.095	W
161	1607	79.278 N	1.738	W	176	1703	75.980	Ν	8.095	W
162	1545	79.122 N	2.448	W	177	1657	75.980	Ν	8.095	W
163	1702	78.825 N	3.469	W	178	1646	75.807	Ν	9.566	W
164	1634	78.491 N	3.752	W	179	1634	75.763	N	9.855	W
1.65	1617	78.139 N	4,720	W	181	1653	75.597	Ν	10.789	W
166	1554	77.840 N	5.286	W						

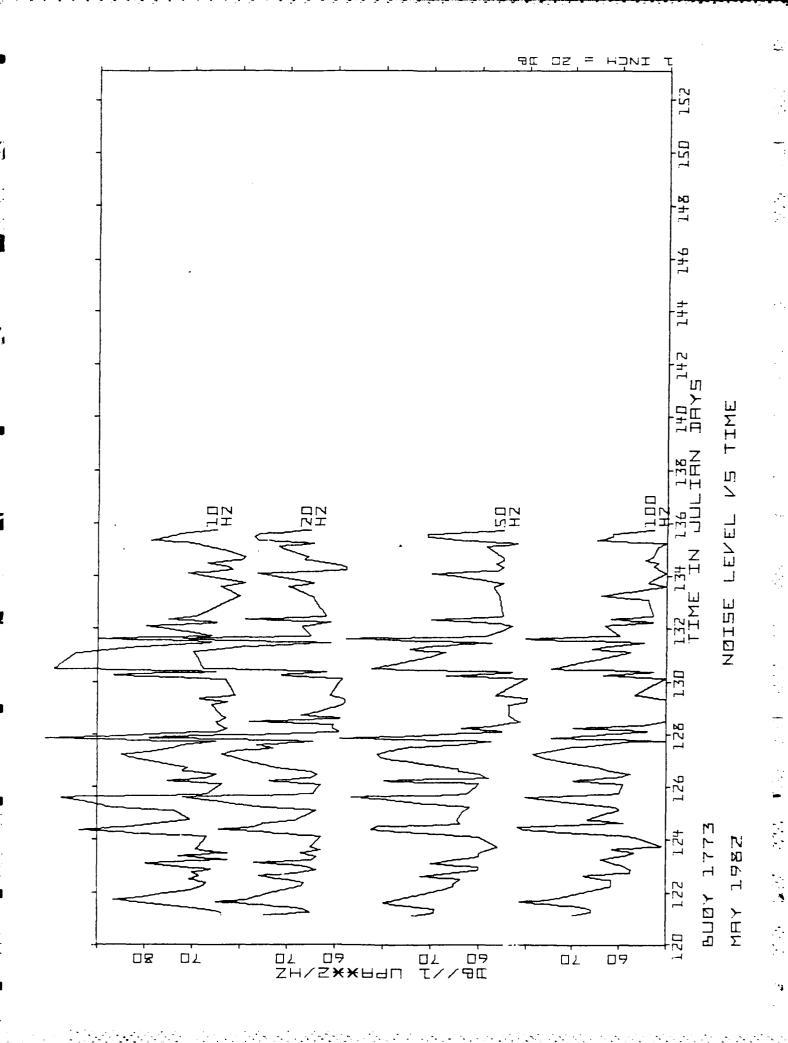
APPENDIX 4

Date Buoy I.D. 1774

Life in Reporting Area 2 (West Greenland Sea)

1 May 1981 ~ 23 Aug 1981

Type: SYNARGOS and Thermistor String (5 - 1000 Hz)



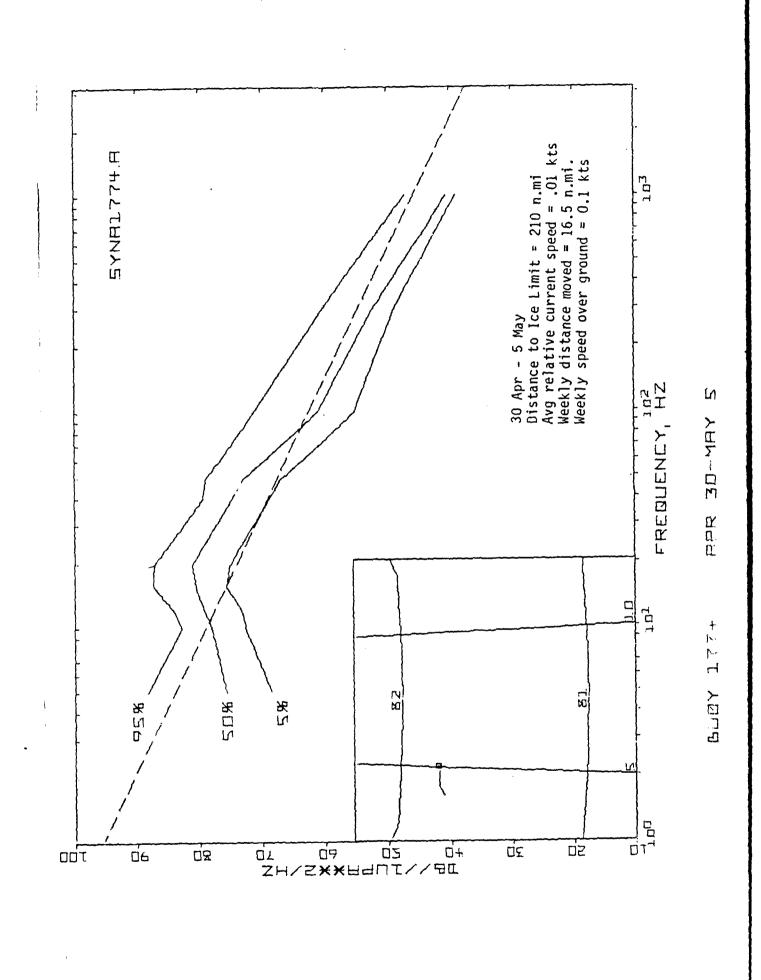
JULIAN 16YS: 120 10 105

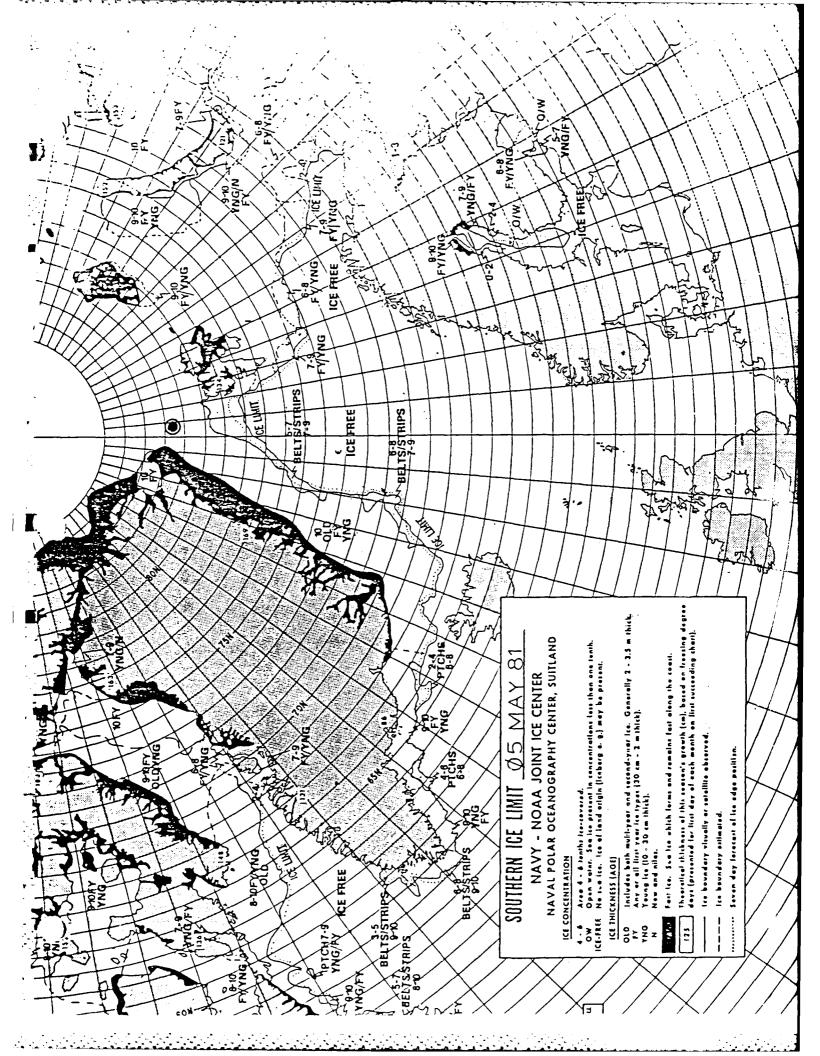
Apr 30 - May 5, 81

JUTPUT IN FILE SYNAI774.A THE NUMBER OF DATA SAMPLES IS 42

MAX 90.8 88.1 86.4 86.4 93.2 91.2 91.2 71.2 75.9 75.9 77.4 95% 883.3 882.7 882.7 884.2 887.1 79.2 778.7 778.7 778.9 778.7 90% 84.8 82.7 882.7 883.6 885.8 72.4 77.1 72.9 69.8 46.5 752 78.7 79.5 79.5 82.1 82.1 83.7 77.5 77.5 75.8 71.0 66.9 43.3 MEDIANN
2 502
7 75.6
8 77.9
77.9
1 79.8
77.6
72.6
72.6
66.9
60.9 102 72.52 74.3 74.3 74.3 76.7 76.6 69.8 69.8 69.8 69.8 69.8 69.8 MIM 728.7 728.7 728.7 728.7 729.7 667.8 657.8 651.7 651.7 39.0 76.4 77.9 77.9 77.9 81.3 81.0 74.5 73.0 68.7 62.8 62.8 i NC 6.00 10.00 12.43 15.44 10.00 100.00 100.00 100.00 FREQUENCY HZ

4



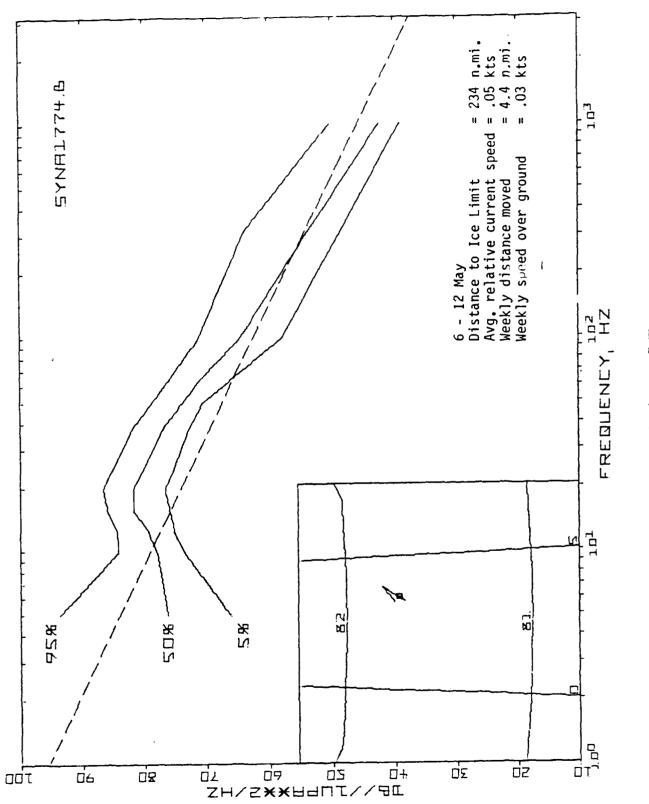


May 6-12, 81 JULIAN DAYS: 126 TO 132

ý.) QUIPUT IN FILE SYNA1774.B THE NUMBER OF DATA SAMPLES 1S

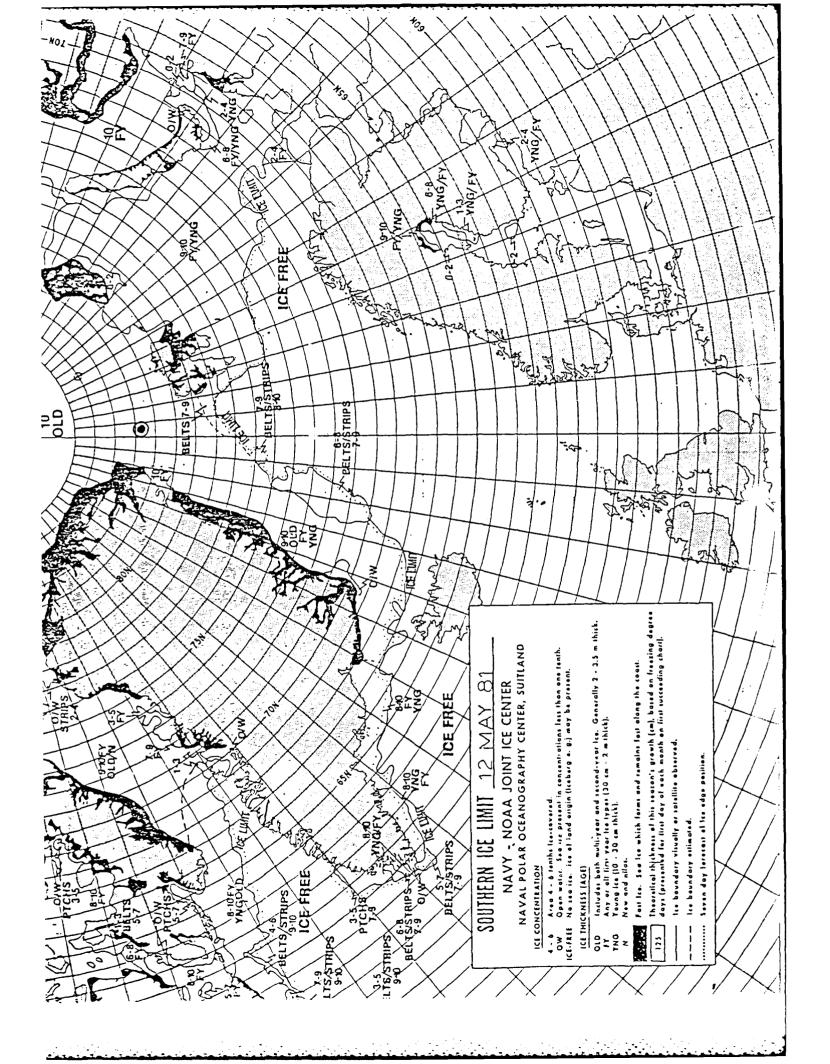
١٥.

90% 91.6 92.7 92.8 84.8	78.4 80.0 81.3 86.0 76.5 77.1 78.7 73.7 73.7 73.7 72.9 82.5 67.7 69.3 71.0 78.9 65.6 69.6 45.8 49.3 50.2 53.8
502 502 76.2 77.9 79.3 81.7	76.4 73.5 71.0 64.4 53.5 42.3
25% 71.8 76.7 73.7 79.9	73.2 74.6 71.6 72.6 66.9 68.5 53.4 60.9 49.0 51.0 39.0 40.5
- 52 65.8 73.5 75.2 75.7	772.3 770.4 770.4 87.8 87.8 9.9
STD DEV MIN S.S 64.0 S.6 71.3 2.5 73.0	2.9 70.4 2.5 63.4 3.2 65.0 4.7 56.4 10.5 -14.7 3.7 39.0
/ AVG 78.4 78.7 80.1 81.6	76.6 70.8 70.8 64.6 53.7 7.83.7
FREGUEN HZ 5. 10.	20.0 40.0 50.0 63.0 100.0 1000.0



BU**0**Y 1774

MHY 6 - 12



ULLION DAYS: 133 10 139 May 13-19, 81

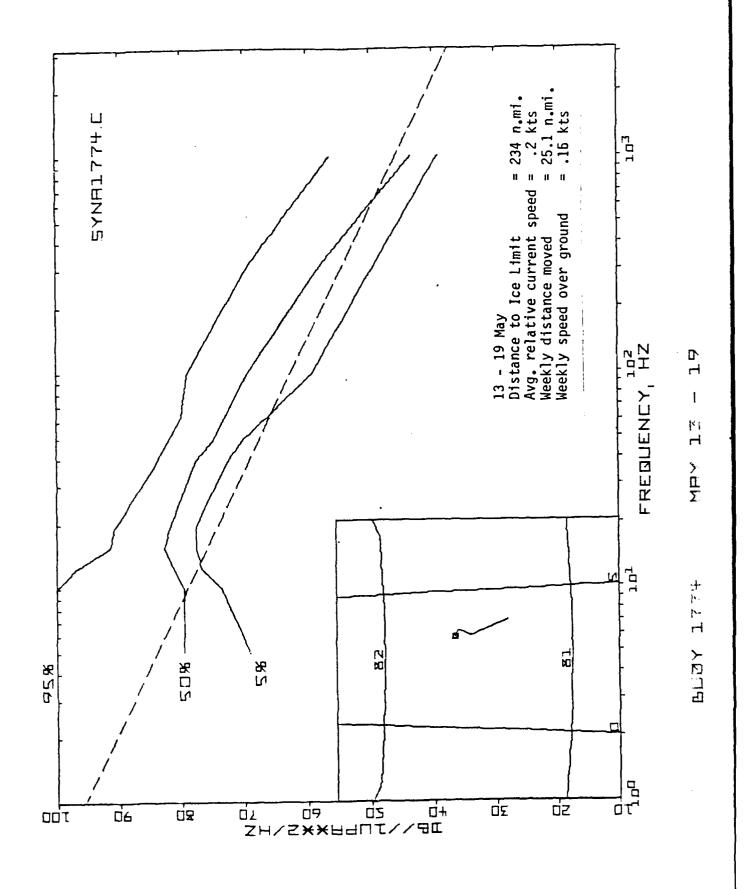
OUTPUT IN FILE SYNAI774.C THE NUMBER OF DATA SAMPLES IS 56

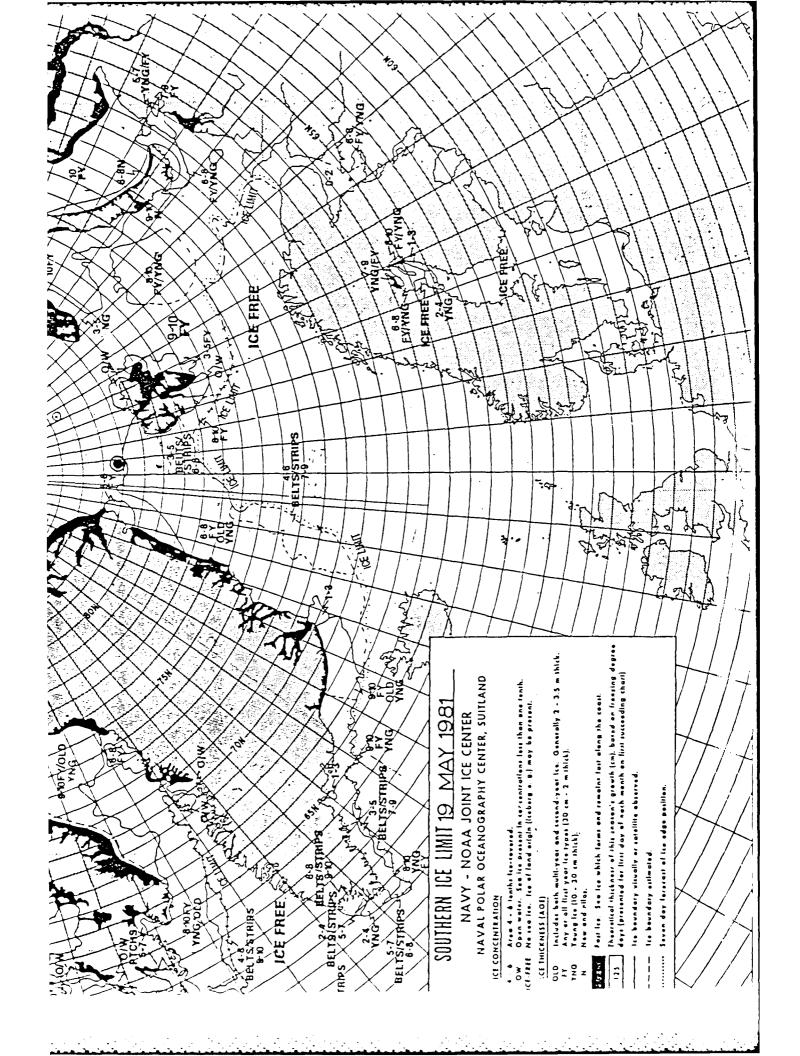
MAX 109.7 102.0 99.3 96.98 84.12 84.12 84.7 86.3 86.3 86.3 86.3 86.3 90.4 83.5 81.8 81.8 79.8 79.0 69.0 90% 95% 103.7 106.9 96.3 91.3 93.3 100.1 91.4 88.8 88.8 89.6 82.5 80.4 79.0 78.0 26.3 85.3 85.3 85.4 85.7 77.6 77.6 77.6 77.6 77.6 77.6 79.6 79.5 81.2 82.8 31.6 77.5 72.9 74.4 MEDIAN 79.3 79.9 80.5 75.3 8.69 63.8 10% 69.66 75.66 77.77 73.71 73.72 71.00 67.86 75.7 76.6 71.4 69.1 66.0 75.2 48.3 13.2 7.8 5.8 83.3 883.883.883.777.64773.0 FREGUENCY HZ 10.0 12.0 15.0 15.0 40.0 40.0 50.0 100.0 ဝ က

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May 20-26, 81 JULIAN DAYSE 140 TO 146

THE NUMBER OF DATA SAMPLES IS JULEUT IN FILE SYNAL774.D

106.8 96.6 92.4 89.7 88.7 84.4 83.1 80.6 78.9 67.1 32.5 752 902 100.9 104.4 90.0 96.0 82.5 81.8 79.0 77.0 90.2 88.8 87.7 88.1 87.8 86.3 81.9 72.9 61.8 49.3 78.7 50% 92.4 83.4 83.5 83.7 83.7 94.4 77.2 74.3 69.8 56.8 56.8 46.8 MEDICAN 25% 78.7 77.9 80.3 81.7 81.6 76.4 74.4 72.0 66.99 10%
75.0
75.0
78.1
78.1
78.1
79.9
70.9
70.0
70.0
71.6
71.6
71.6 310 30.4 84.5 84.4 84.6 84.6 779.0 77.0 70.0 58.7 74.4 PREGIENCY 0.01 12.0 13.0 40.0 50.0 63.0 100.0 320.0 20.0

98.4 92.6 90.4

0.36

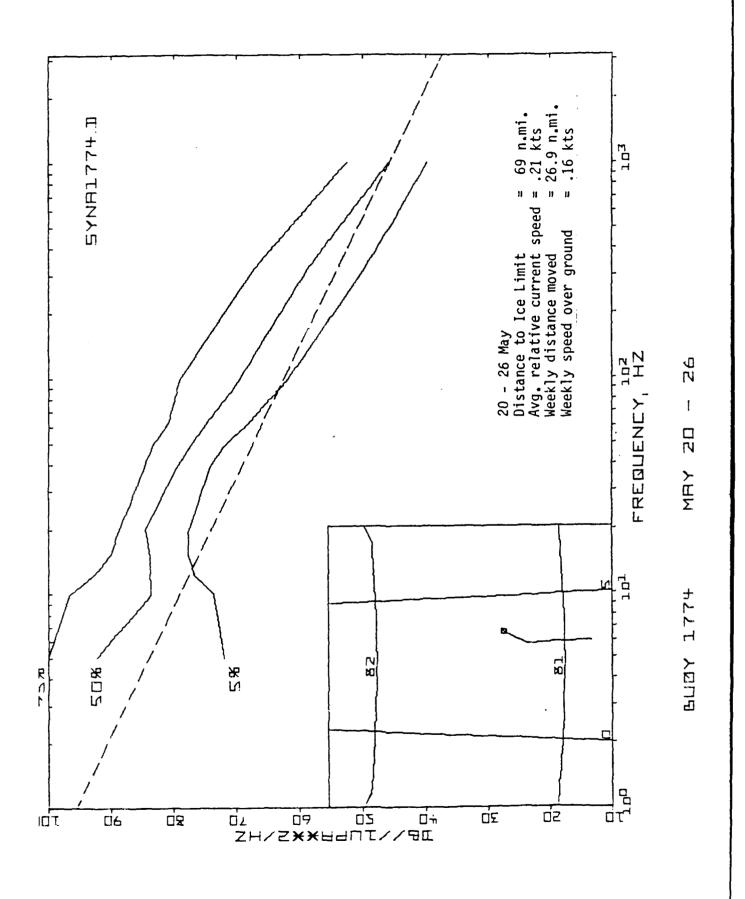
83.7

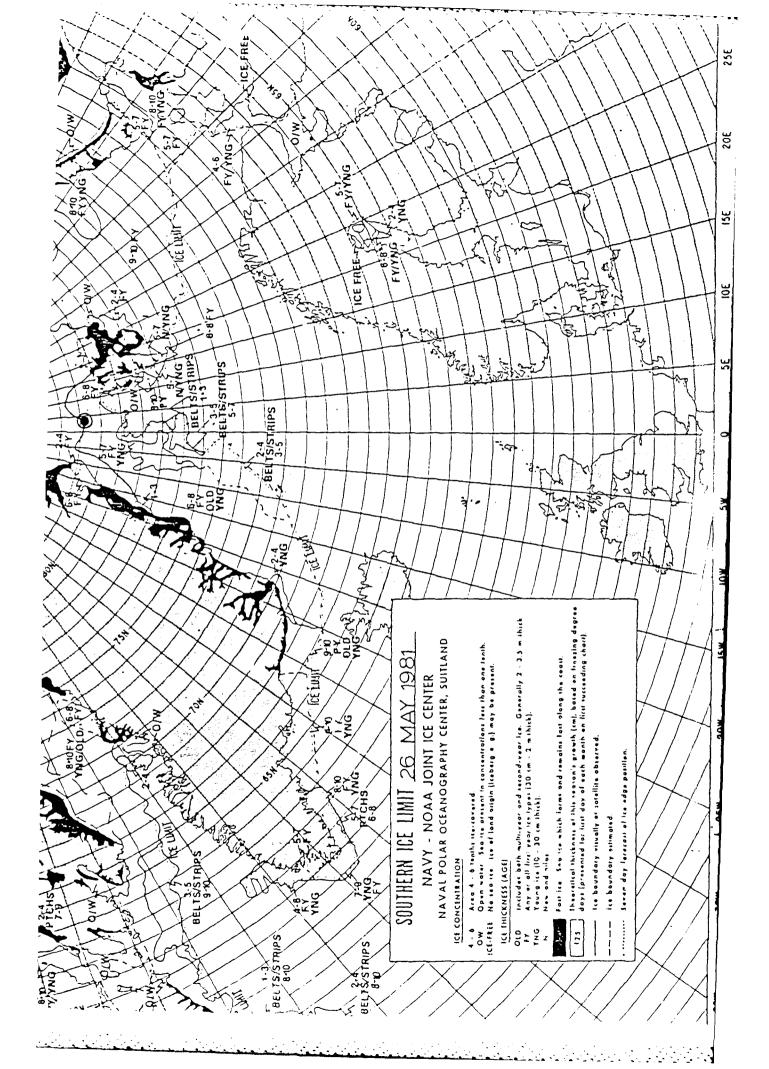
88.1 81.2 70.6 61.4

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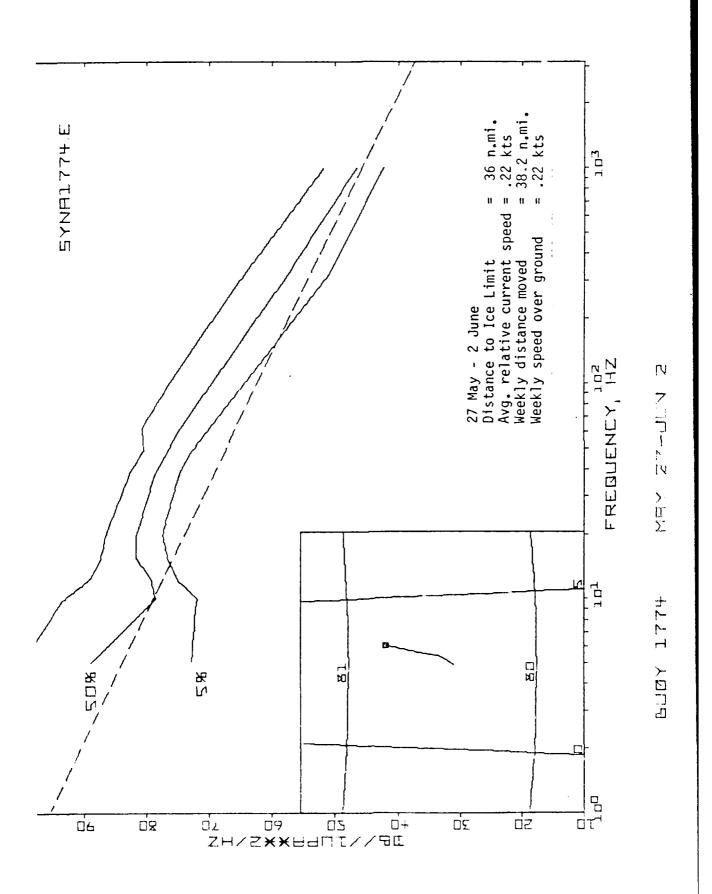


JULIAN DAYS: 147 TO 153 May 27 - June 2, 81

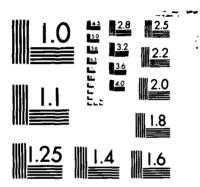
OUTPUT IN FILE SYNAI774.E THE NUMBER OF DATA SAMPLES IS 56

MAX 103.7 25.4 26.7 89.7 86.0 86.0 86.0 86.0 67.1 87.1	
902.00 903.00 903.00 905.00 900.00 760.00	
90% 800.101.3 800.4 800.2 800.4 800.4 800.4 800.4 800.2	
75% 96.8 1 88.6 84.2 83.6 83.6 77.6 77.6 72.0	
MEDIAN 502 88.9 78.5 79.3 81.6 78.4 76.5 74.5 69.8	
252 01.0 76.7 79.2 79.8 79.8 76.4 75.1 72.9 66.0	
10% 75.0 78.5 76.8 77.6 77.6 79.1 75.3 73.5 65.0 65.0	
57 72.7 72.7 70.7 70.2 74.6 77.6 72.6 69.8 69.8	
MJN 700.7 700.7 700.7 700.7 700.0 600.0 860.0	
010 010 06.4 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	
AVG 89.0 80.8 81.7 81.9 76.7 76.7 74.9 87.8	
FREQUENCY HZ 5.0 10.0 12.5 15.6 20.0 40.0 53.0 100.0	

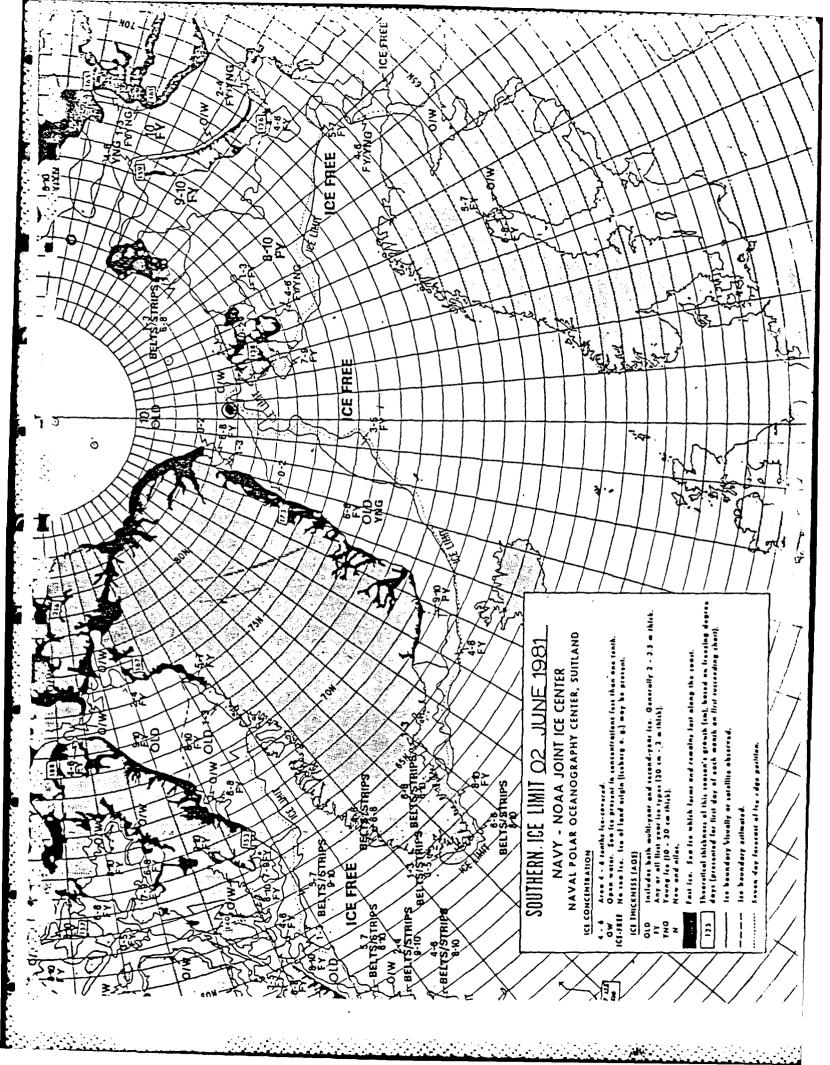
UULJAN DAYS: 154 TO 160



	AD-A156 818 LONG TERM STATISTICAL MEASUREMENTS OF ENVIRONMENTAL 3/7 ACOUSTICS PARAMETERS I. (U) POLAR RESEARCH LAB INC CARPINTERIA CA B H BUCK ET AL. 13 DEC 84 PRL-TR-53 UNCLASSIFIED N00014-84-C-0394 F/G 20/1 NL												-		
				7			f %						ſ		
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BURFAU OF STANDARDS-1963-A



June 3-9, 81 UMLIAN DAYS: 154 TO 160

THE NUMBER OF DATA SAMPLES IS DUTPUT IN FILE SYNA1774.F

105.1 106.9 108.9 94.8 98.5 101.4 95.6 92.0 85.8 78.1 82.5 31.2 90.8 87.2 85.8 81.9 78.1 72.9 20% 63.1 100.9 89.4 84.8 84.8 77.0 79.6 84.4 81.3 80.3 50% 88.9 79.5 80.3 81.7 82.7 82.0 76.5 MEDION 75.2 74.4 77.5 79.9 80.5 78.4 25% 77.1 57.5 79.6 75.2 78.5 77.5 77.5 76.5 73.8 568.5 75.0 71.9 75.2 75.2 75.4 76.4 75.8 73.8 44.2 MIN 20.2 69.2 71.5 75.7 75.4 75.4 75.4 55.0 44.2 6.99 10.8 9.2 6.3 DEV STD 6.06 82.5 82.6 80.0 76.3 71.0 59.0 82.4 78.4 82.1 **FREQUENCY**

5.0 10.0 12.3 15.6

40.0

50.0

20.0

63.0 100.0 320.0

1000.0

97.4 93.8 91.2 91.2 93.7 93.7 75.6 64.6

54.3

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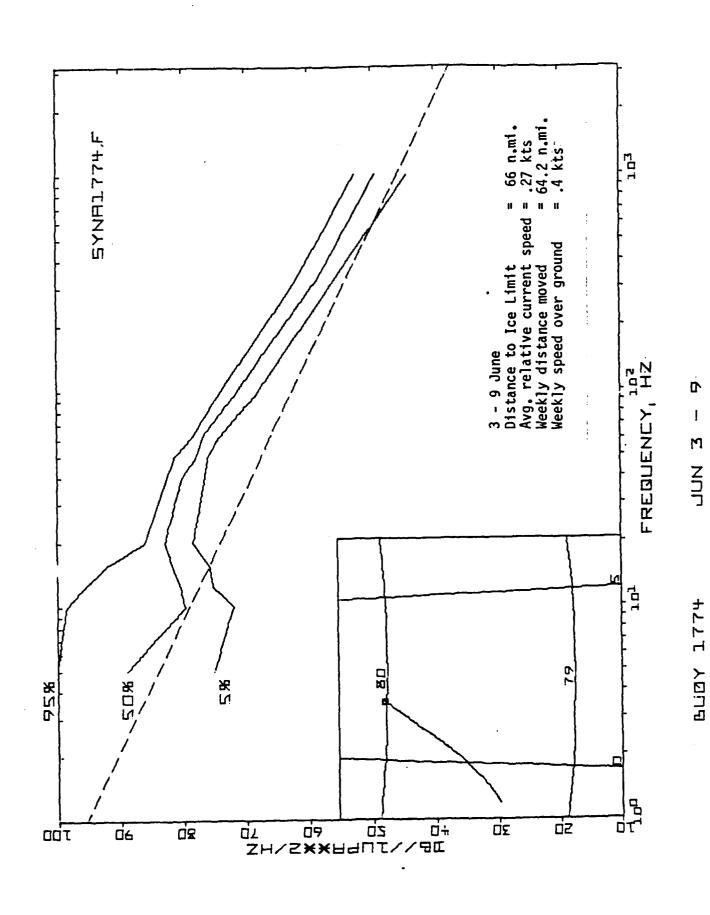
ئد ت:

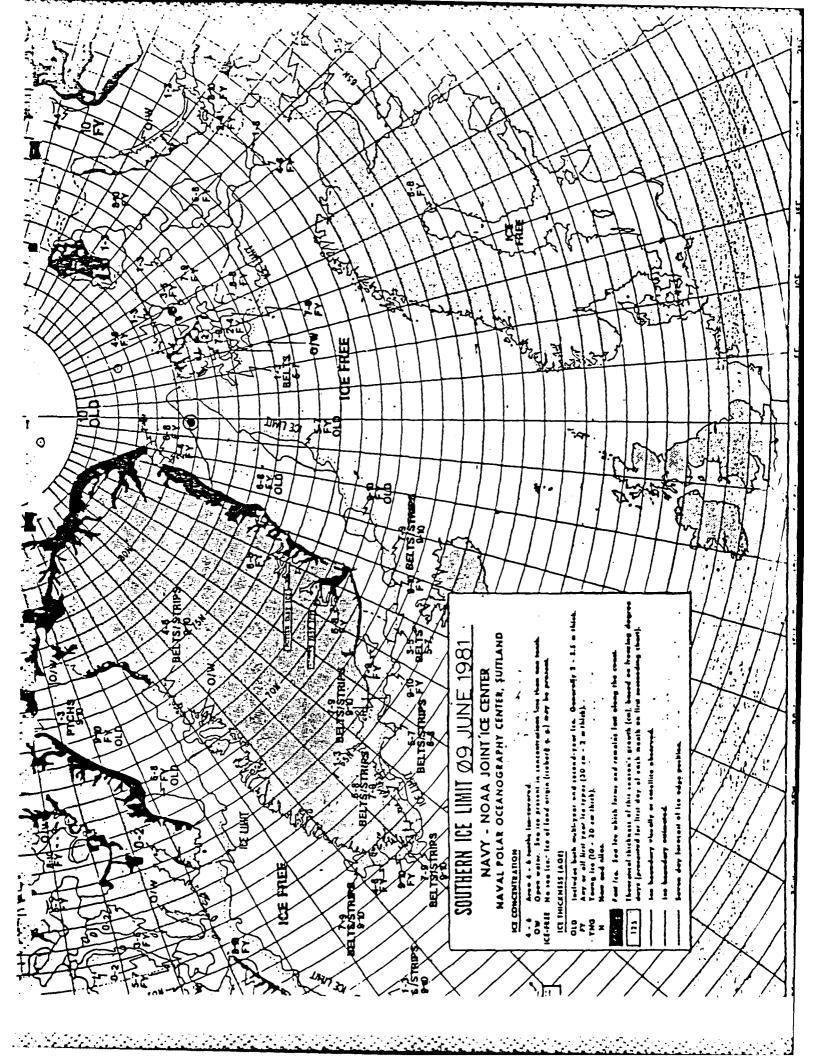
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JULIAM DAYS: 161 TO 167

June 10-16, 81

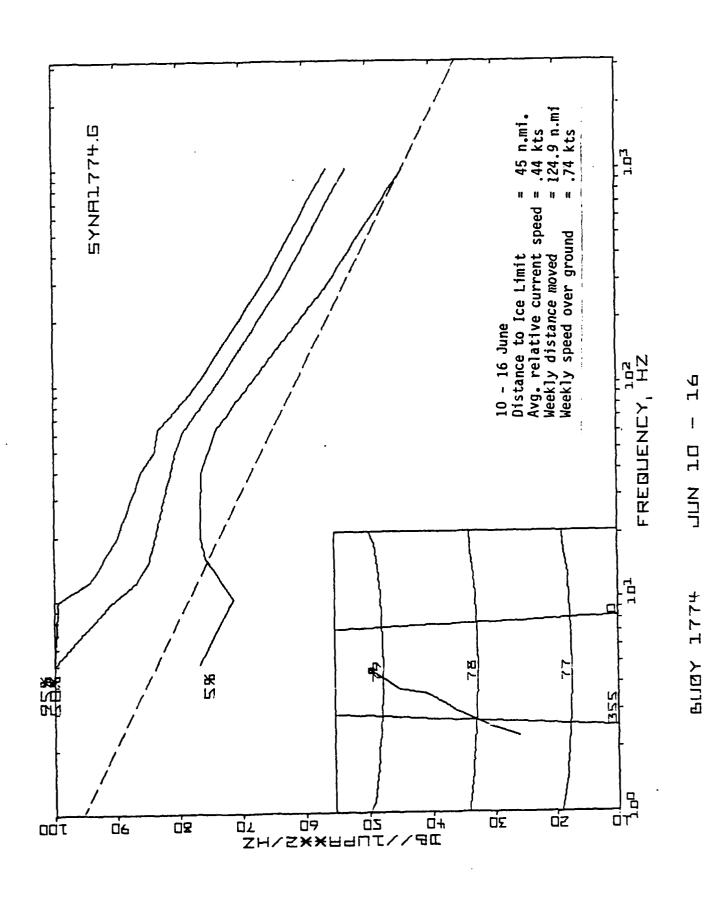
₹.

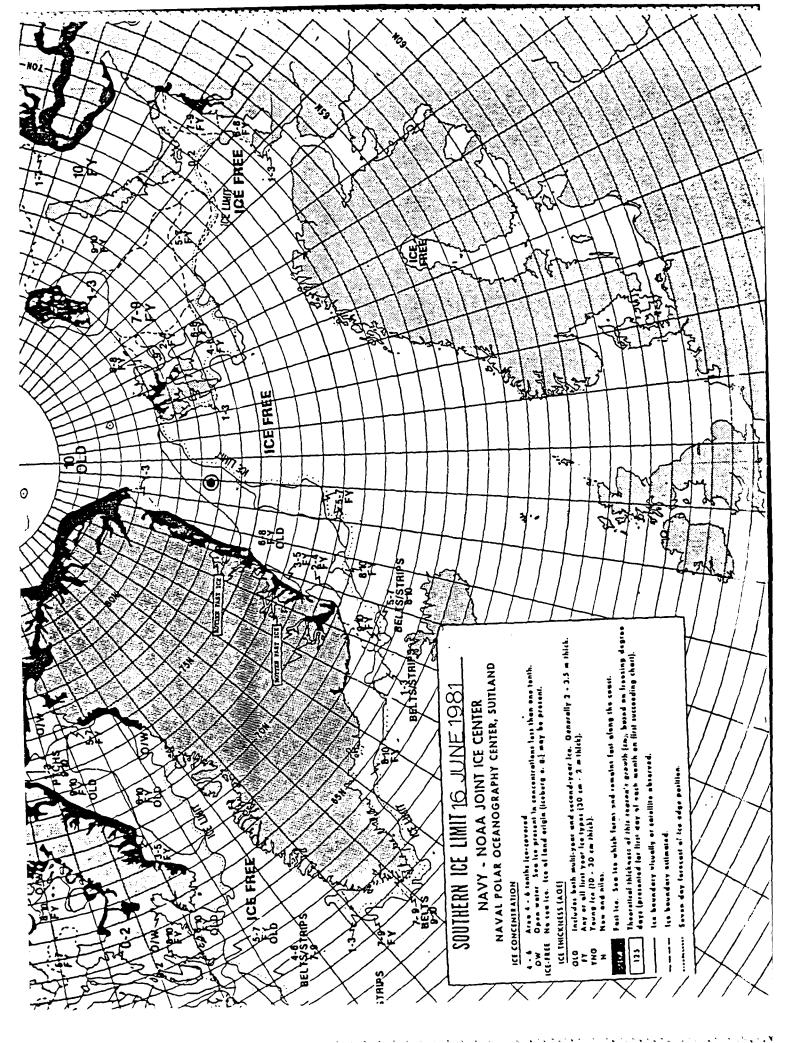
Š MUTPUT IN FILE SYNAL774.6 THE NUMBER OF DATA SAMPLES 1S

	MOX.	110.4	102.6	100.9	0.0%	92.0	87.8	% ·	0 (%)	30°	69.6	57.1
	11:26	106.4	0.66	94.1	92.0	9.00	0.93	83.7	88. 1.	77.0		36.3
	%0%	105.3	97.6	99.9	89.7	87.7	N G	83.7	82,3	76.4	6.5.5	0 0 0 0 0
	75%	104.4	94.8	91.4	00 00 00	86.5	82.2	82.0	80.4	75.8	63.6	54.3
IEU I AN	202	100.9	90.6	86.4	84.5	33.6	81.3	80.4	79.0	73.8	62.4	53.2
2	25%	91.6	79.5	79.3	80.6	81.6	79.2	73.7	76.5	72.0	(A)	48.3
	10%	78.7	72.5	76.1	76.7	78.4	77:5	76.5	73.8	69.3	57.0	45.1
	2%	76.8	71.3	73.3	75.7	76.6	76.4	75.1	73.8	68.0	0.00	44.2
	MIN	72.7	67.5	72.7	75.7	75.6	75.9	74.4	73.8	66.99	54.0	43.3
31.0	DEV	10.0	9.7	7.2	(N	ტ.	2.7	2.7	0 0	2.8	Ø. 4	დ დ
	AVG	97.0	87.2	80 80 80	84.6	89.00	83.2	S. 05	70.8	7.3.6	61.9	91.3
FREGUENCY	112	0.0	10.0	12.3	15.6	20.0	40.0	0.00	0.63	100.0	320.0	1000.0

168 TO 174 CULION DOYS: , "-Imag

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JULIAN DAYS: 168 TO 174 June 17-23, 81

OUTPUT IN FILE SYNA1774.H THE NUMBER OF DATA SAMPLES 1S 56

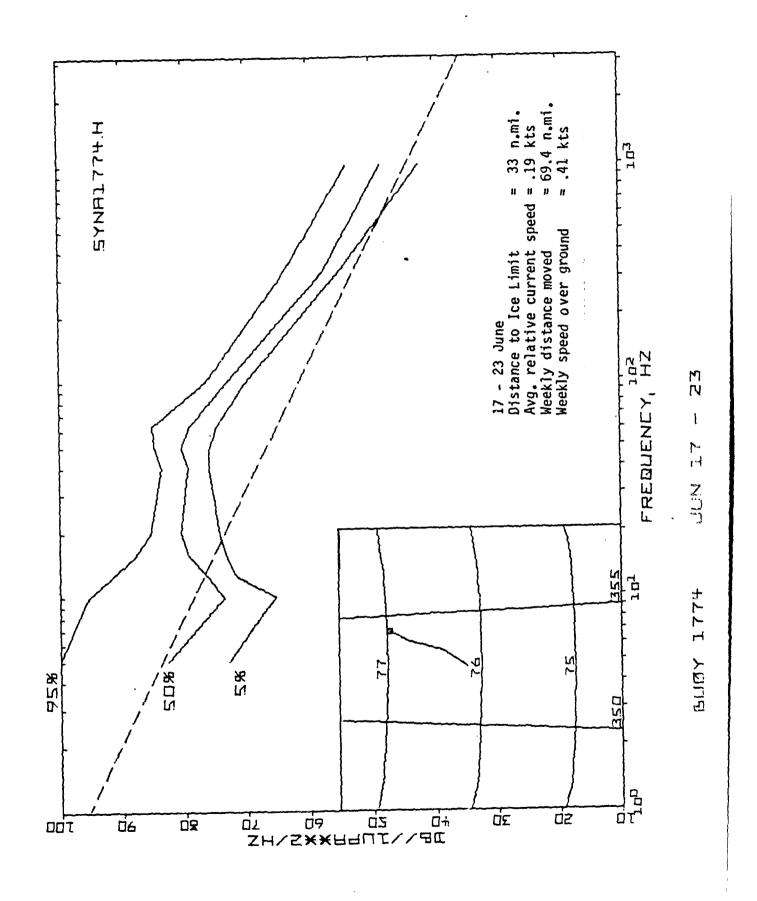
MAX 106.4 98.5 96.2 94.3 91.3 87.7 85.6 85.6 85.6 86.3 87.8 955.2 100.1 100.1 100.1 100.2 80.2 80.2 80.2 34.7 85.0 76.4 63.6 53.8 90% 68.77 88.77 88.77 88.77 88.77 88.77 87.77 88.77 88.77 88.77 75% 85.6 76.0 79.3 79.3 81.7 81.9 81.8 73.8 50.3 MEDIAN 2 50% 8 82.8 7 73.5 7 79.2 4 79.2 7 80.5 7 79.0 7 79.0 7 79.0 7 80.4 8 87.9 8 87.9 257 77.8 77.8 77.0 74.3 74.3 78.4 78.4 78.7 76.5 71.0 74.2 102 666.50 772.7 772.7 776.6 776.7 776.8 78.9 78.9 83.0 AIN 688.3 688.3 740.7 743.8 743.8 743.8 743.8 743.8 743.8 743.8 743.8 743.8 743.8 84.7 75.6 77.7 77.7 77.9 80.4 80.4 72.9 72.9 48.0 FREQUENCY HZ 70.00 170.00 170.00 170.00 170.00 0.001 320.0 50.0 63.0

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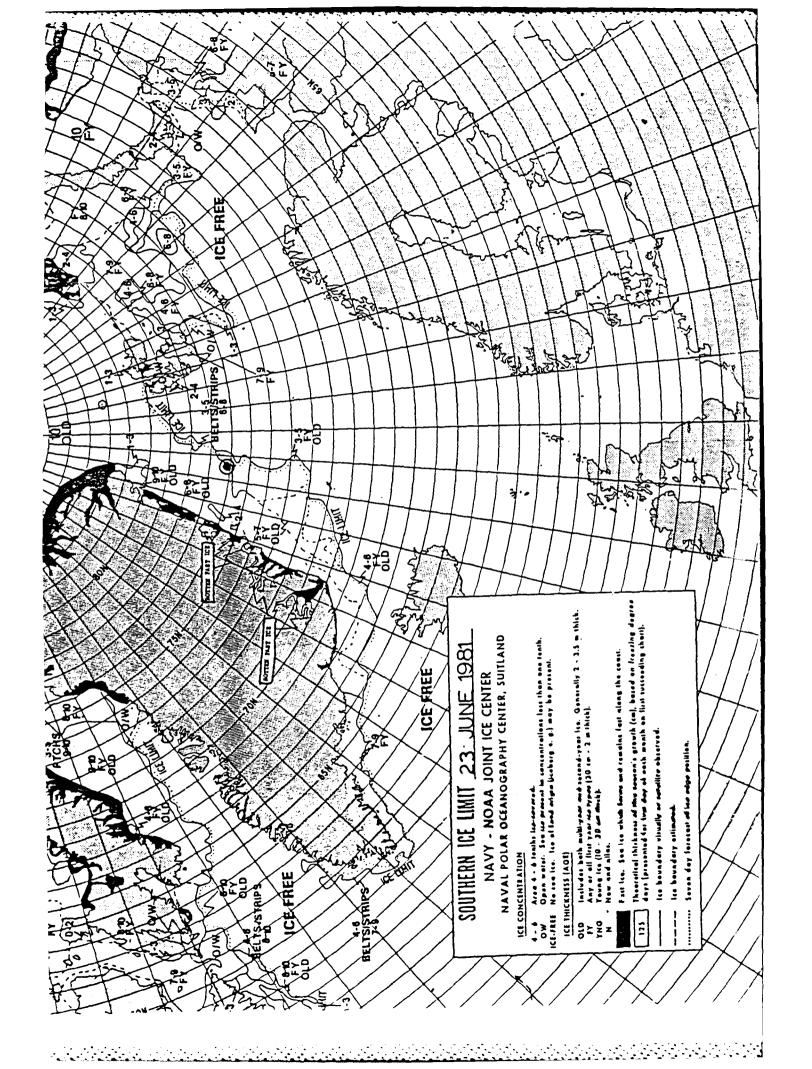
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JULIAN BAYS: 175 10 181 June 24-30, 81

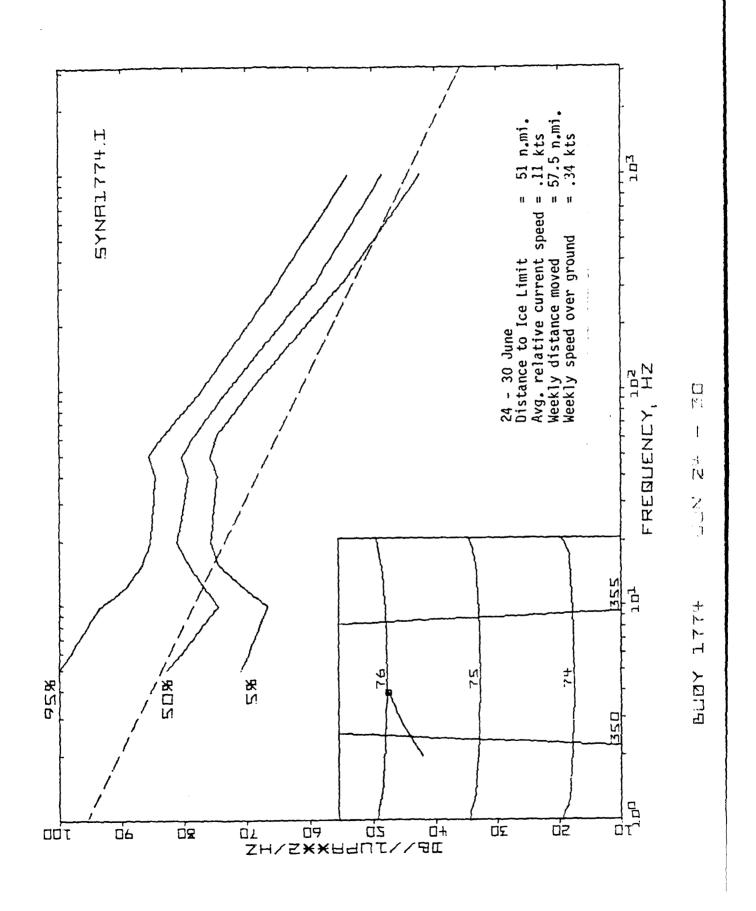
DUTFUL IN FILE SYNA1774.1 THE NUMBER OF DATA SAMPLES IS 48

7 952 MAX 103.7 106.9 93.3 99.3 3 88.9 93.3 7 86.6 88.8 4 85.2 87.7 6 84.4 85.2 7 85.6 89.7 85.1 86.6 77.0 79.8 77.0 79.8 6 64.6 65.5 90% 900,000 904.54 900,000 900,000 900,000 900,000 900,000 75% 87.0 77.9 77.9 77.9 80.9 80.3 80.1 80.1 75.2 75.2 75.2 75.3 50% 82.88 74.4 774.4 779.2 80.4 720.4 720.4 720.4 720.4 MEDIAN 25% 76.8 72.8 75.2 77.6 77.6 77.0 77.0 10% 74.3 70.0 73.3 75.7 77.5 77.5 77.1 77.1 76.9 69.8 52 70.02 66.03 74.03 74.04 74.03 74.03 74.03 74.03 AVG 84.3 77.7 77.7 77.7 79.6 80.4 79.6 79.1 173.0 0.00 10.01 17.00 17.00 10.00 10.00 10.00 10.00 10.00 10.00 FREQUENCY H7

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JULIAN PAYS: 210 TO 216 July 29 - Aug 4, 81

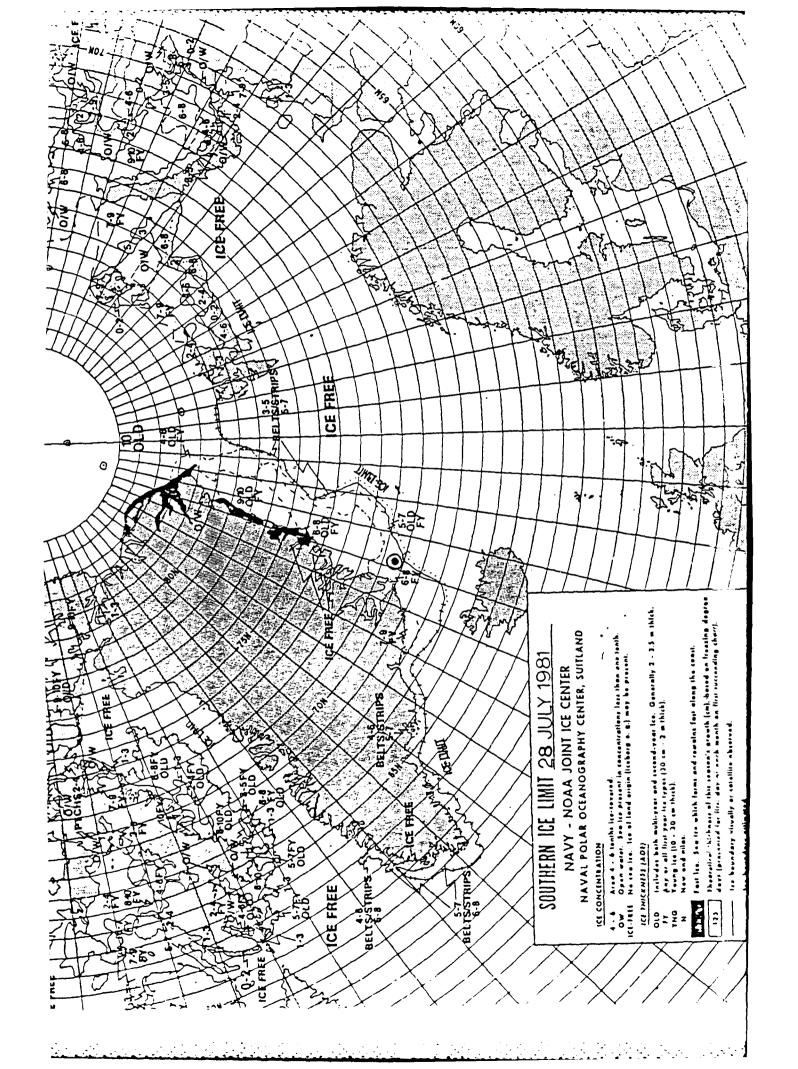
OUTPUT IN FILE SYNAI774.N THE NUMBER OF DATA SANFLES IS 56

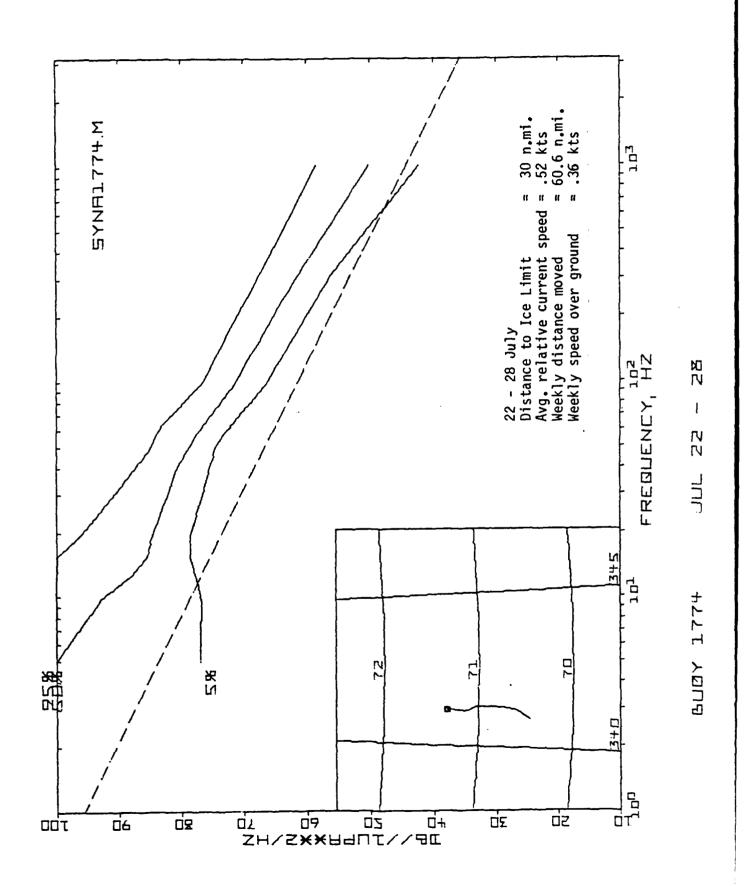
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		_	_									57.8
	756	103.7	\$0°.0	96.4	က က ဏ	(ଧ (ମୁ	82.5	81.2	3.%∠	/a.s	63.6	24.0
											63.0	
											62.4	
MEDIAN	202	86.4	75.3	75.2	77.6	79.1	77.5	77.6	75.9	71.0	€0.09	50.3
Ξ	25%	76.8	65.0	71.5	75.1	13.4	76.4	776.5	74.5	69.8	5. 5.	48.3
	10%	73.6	એ. ઉજી.	68.3	70.7	16.6	74.6	75.1	72.9	69,2	57.0	46.5
	2%										57.0	
	Z Z										55.7	
STD											2.4	
	S) (i)	86.6	73.7	76.0	77.9	80.2	78.1	77.6	76.0	71.5	80.09	50.3
FREEDENCY	HZ	O.0	10.0	2. S.	15.6	20.0	40.0	50.0	63.0	100.0	320.0	1000.0

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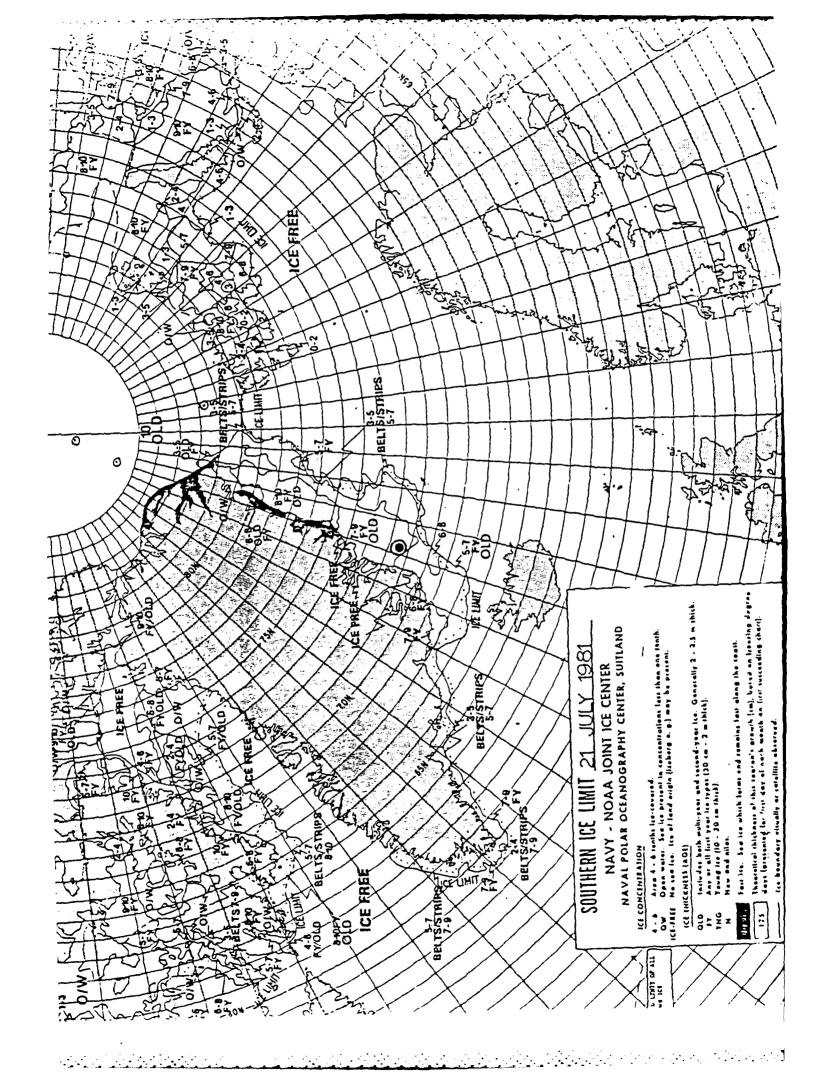


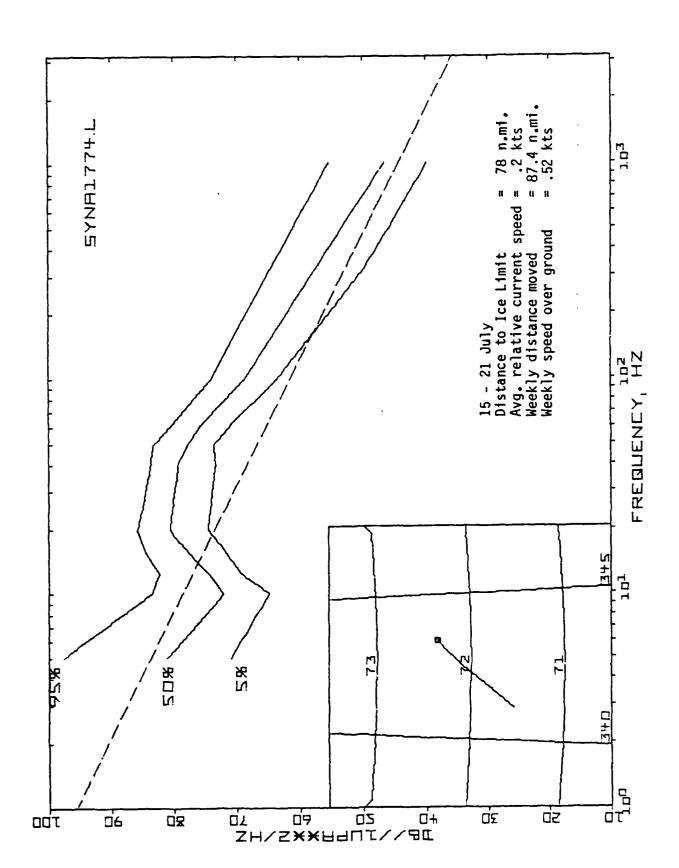


JULIANN DAYS: 203 TO 209 July 22-28, 81

JULHUT IN FILE SYNAIZZA.M THE NUMBER OF DATA SAMPLES IS 56

	YUX	114.0	106.1	104.4	102.6	00 00 00	က တ တ	85.6	84.1	79.8	0.69	60.3
		-	104.5									
		-	102.6									
	75.7	106.9	97.6	94.1	20.0%	87.7	က တ	υ Α	79.8	73.8	63.6	64.8
COIGN	20%	102.8	92.5	38.1	(i) (ii) (ii)	84.4	9.03	78.7	7/6.5	71.0	6.1.1	50.2
Ξ												47.7
	10%	3.61	77.9	79.3	79.2	0.07	76.4		70.0	6.00		45.0
												42.3
	N N	75.7	71.0	75.0	75.7	77	0.0	v • • • • • • • • • • • • • • • • • • •	2	9 E C 7		33.0
1113												9
	SVC											0.10 0.10
AUMERICIACO	117	e E	9.0	С.	7 - 2 -	0 0 7 0 7 0	0.0%	40.0	0.00	0.000	0.001	1000.0





JUL 15 - 21

July 15-21, 81 202 196 10 HILIGH HAYS:

90 THE NUMBER OF DATA SAMPLES 18 DUIFUL IN FILE SYNAI774.1.

96.6 91.4 98.0 98.0 98.7 98.7 90.6 97.0 97.0 97.0 104.4 90% 96.8 816.8 80.3 80.3 80.3 779.0 779.0 752 87.0 76.7 76.7 76.7 81.2 83.6 81.3 79.6 77.0 77.0 81.0 71.9 77.6 77.6 30.5 77.6 73.2 68.03 57.6 20% MEDIUN 75.6 68.4 71.5 74.5 77.5 76.4 72.9 72.9 65.0 65.0 65.0 65.0 107 655.7 772.7 772.9 774.6 774.6 647.6 647.6 5% 70.8 A11x 60.00 70. 4.3 5.5 压V 773.1 777.9 777.9 779.1 777.8 775.4 68.7 46.8 32.5 FREGUENCY 40.0 30.0 60.0 15.6 20.0 0.001 0.0 10.0 12.0 320.0 0.0001

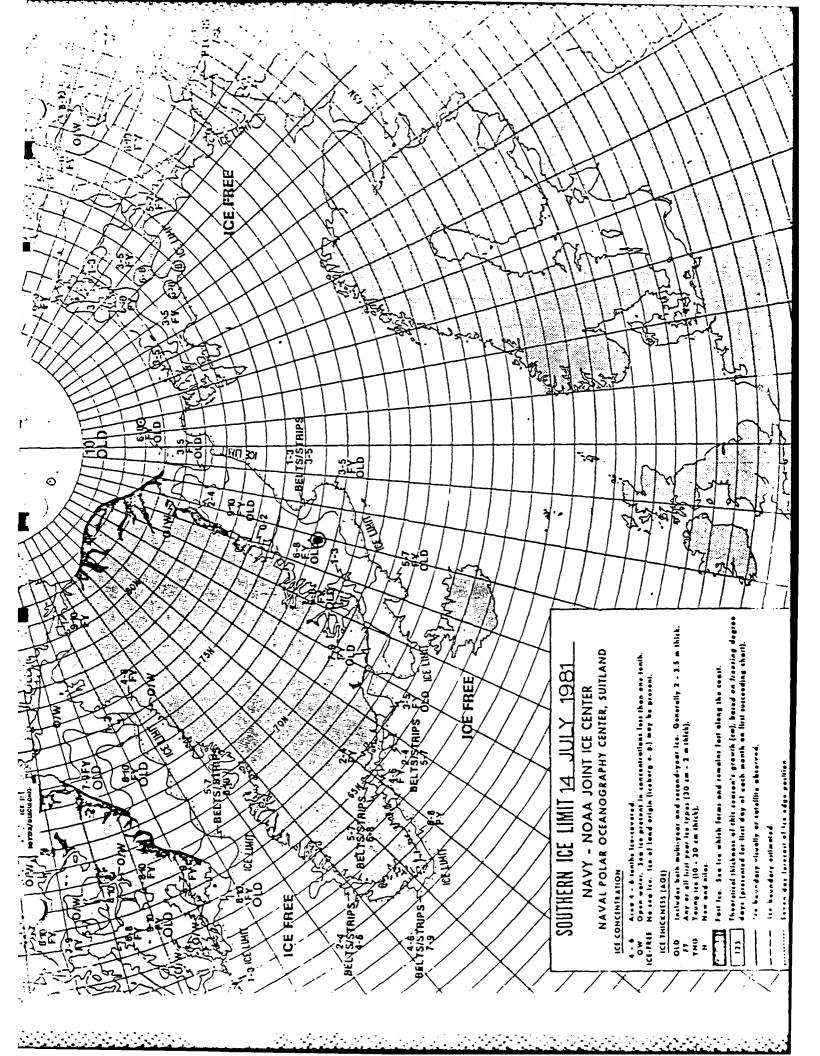
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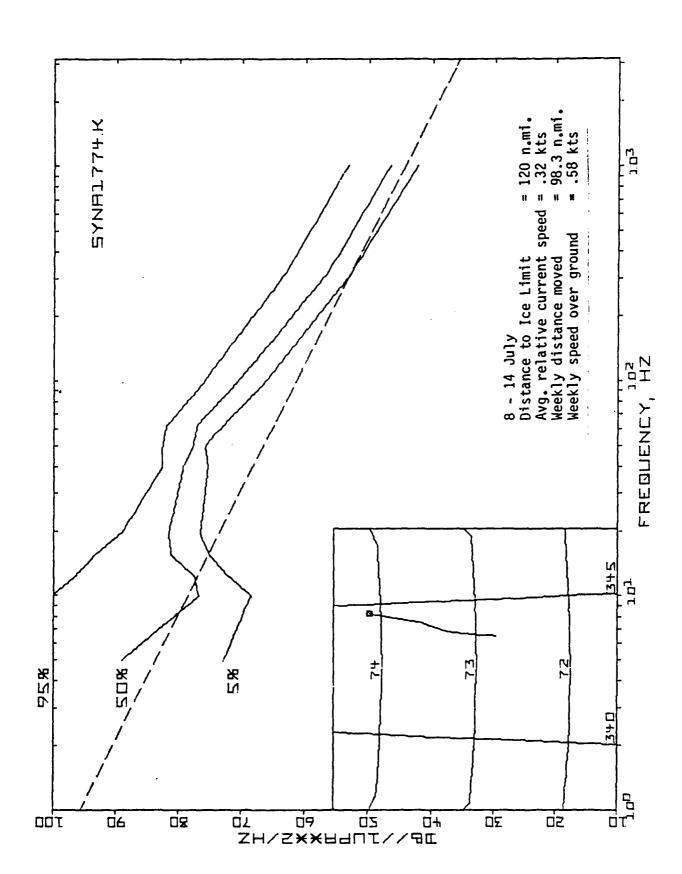
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JUL 8 - 14

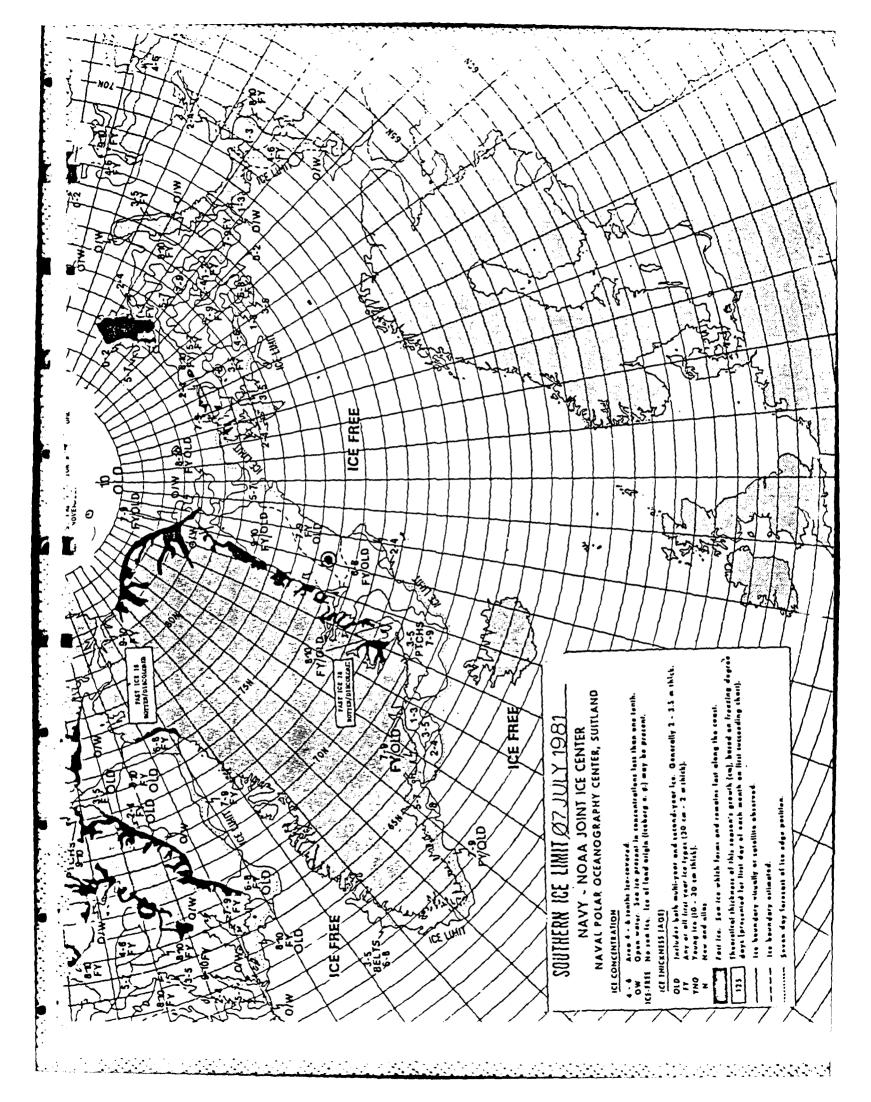
JULIANN DAYS: 189 TO 195 July 8-14, 81

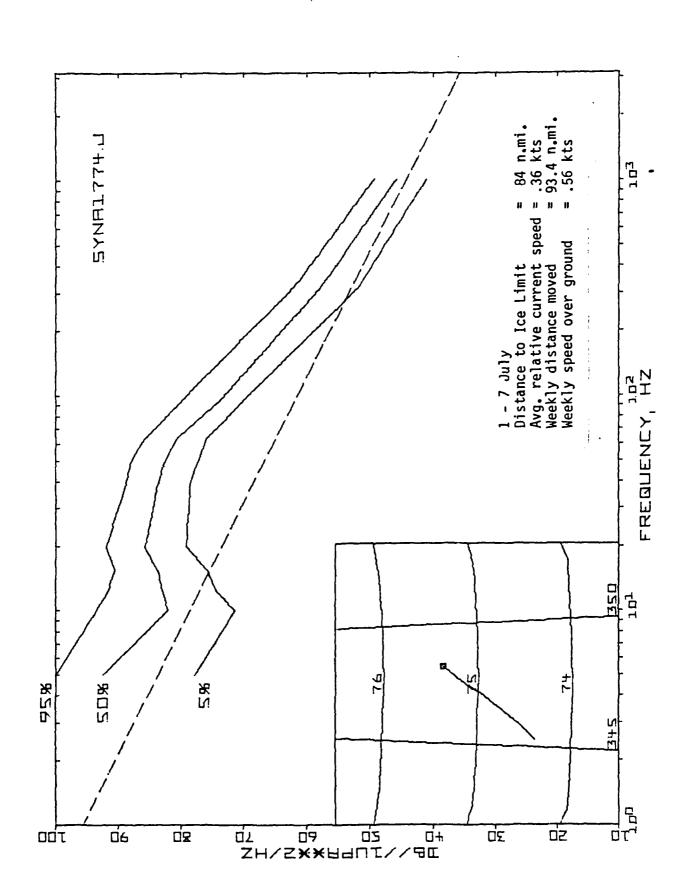
OUTPUT IN FILE SYMMITTALK THE NUMBER OF DATA SAMPLES IS 56

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				99.00								
				36.3								
		_		90								
	75%	102.3	54.1	90.2	60 100 100	89 89	SO: 6	79.6	78.1	72.0	50.00	<u>50</u> .0
MEDIAN	20%	88.9	76.7	77.5	81.2	81.6	79.2	77.6	77.0	70.4	56.4	46.0
Σ				74.3								
	10%	76.2	69.2	73.3	75.7	78.4	75.9	75.8	73.8	6.09	មា ស	42.3
	25%	72.7	68.4	72.1	75.1	76.6	75.3	75.8	72.9	66.0	52.0	42.3
	Z I E	67.5	66.5	71.5	74.5	75.6	73.9	71.6	72.9	65.0	50.4	41.1
018	I)EV	12.1	11.50 5.11	0	5.7	3.7	2,0	2.6	2.7	ب ج	ල ල	თ თ
	3/0	00	0 0	81.7	(A)	20.4	79.2	78.4	77.0	70.6	57.4	46.3
FREEDENCY	117	O M	10.0	12.5	9.51	20.0	40.0	30.0	69.0	100.0	320.0	1000.0

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July 1-7, 81 182 (0) 188 THE TON DAYS:

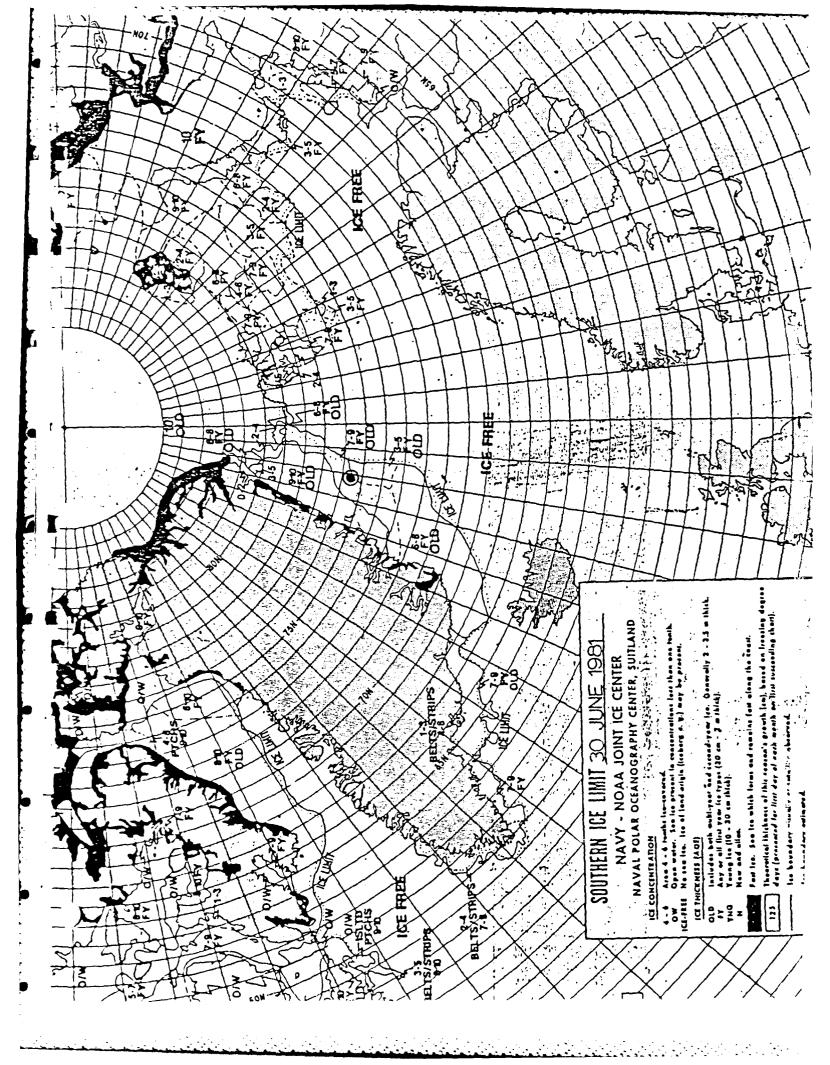
90 THE MUMBER OF DATA SAMPLES IS UTPUT IN FILE SYNALZYA..

102.6 93.7 93.7 91.2 91.6 79.6 63.0 90.00 00000 0000 0000 0000 0000 0000 91.4 90.5 91.9 907 907.0 907.0 90.0 90.4 90.4 90.7 90.0 90.0 90.0 90.0 90.0 75% 888.1 87.2 87.2 88.7 88.7 88.7 87.3 75.8 460.8 PIED TAN 25% 81.0 77.3 77.3 79.3 80.6 82.7 80.6 779.6 779.6 779.6 107 78.7 78.7 76.1 76.1 79.8 79.4 79.4 79.7 77.0 77.0 74.7 52 77.8 77.8 74.3 74.3 75.7 75.9 75.9 69.2 51.5 AIN 683.3 772.1 77.5 77.8 77.8 75.8 75.8 39.8 FREGUENCY 100.0 320.0 1000.0 12.5 15.6 20.0 40.0 50.0 5.0

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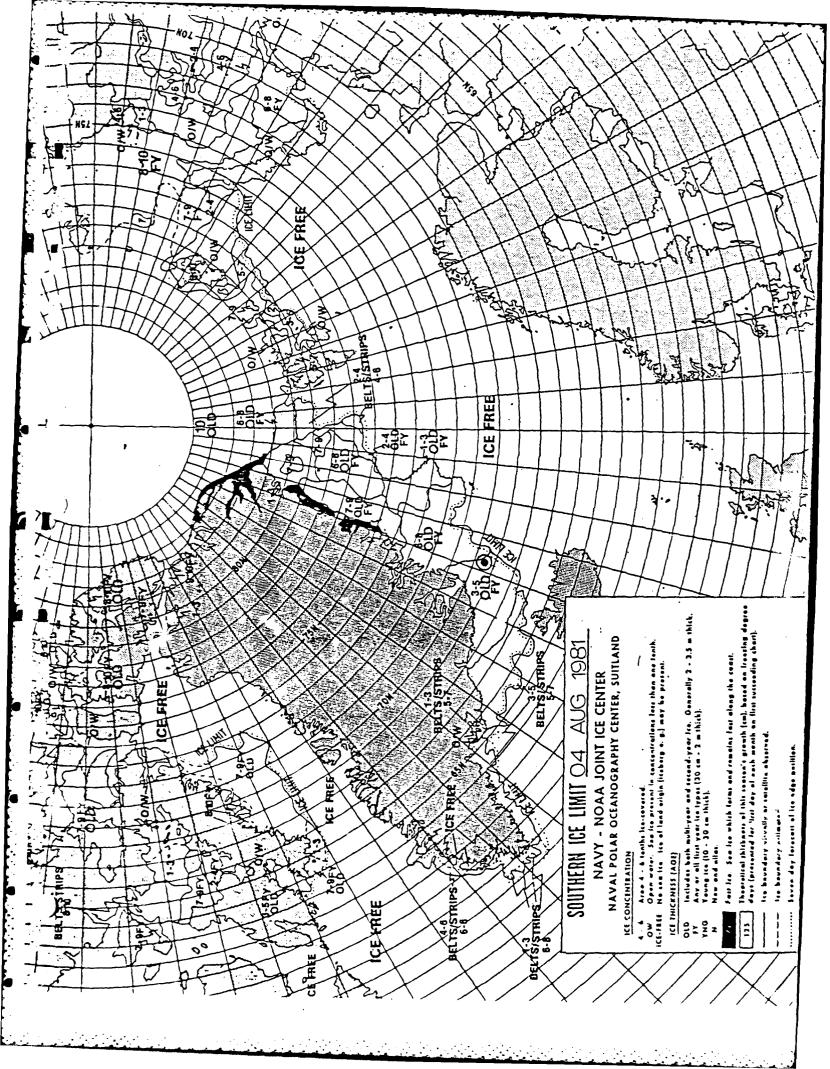
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Aug 5-11, 81 217 T0 223 JULIAN DAYS:

90 OUTFUL IN FILE SYNAI774.0
THE NUMBER OF DATA SANFLES IS

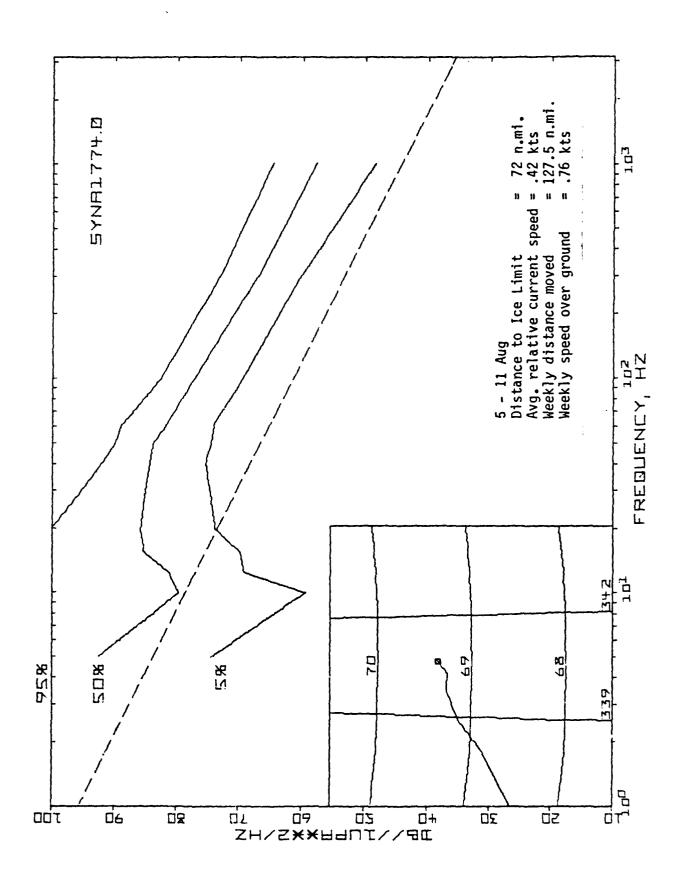
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EQUENCY		aus				Σ	EDITAN				
17	AVG	LEV	ΝÏΝ	2:%	10%	25%	20%	75%	20%		MAX
0.0	94.3	14.5	72.7	74.3	76.8	31.0	92.4	112.4	114.9		116.5
10.0	0.83	17.7	56.4	59.8	61.5	67.5	79,5	102.6	108.6		110.6
12.5	84.9	14.0	68.3	69.2	69.2	73.3	81.2	ુ છ.	106.2		108.9
15.6	86.1	11.9	69.7	1.63	70.7	75.7	0 10 10 10 10 10 10 10 10 10 10 10 10 10	36.5	104.0		106.8
20.0	86.0	17) (%	72.4	73.8	74.4	76.6	0 0 0	93.1	1.66		101.6
40.0	83.7	មា មា	74.6	75.3	76.4	78.4	84.4	87.9	89.3		60
50.0	82.6	ර ග	73.5	74.4	75.1	77.1	83.7	87.2	97 00 00	89.7	92.4
63.0	0.13	ः प	72.0	73.8	75.2	77.0	81.2	ು ಬ	87.3		8.00
100.0	76.1	4.6	6.00 500 500	69.2	83.8	71.0	77.0	SO. 6	81.9		83.0
320.0	8.55	4.4	58.6	ا ا ا	8.03	6.1.8	66.0	4.69	71.5		73.1
0.0001	57.0	က ဟ	47.7	48.3	31.1	%. ₩. ₩.	57.8	61.4	63.1		.66.4

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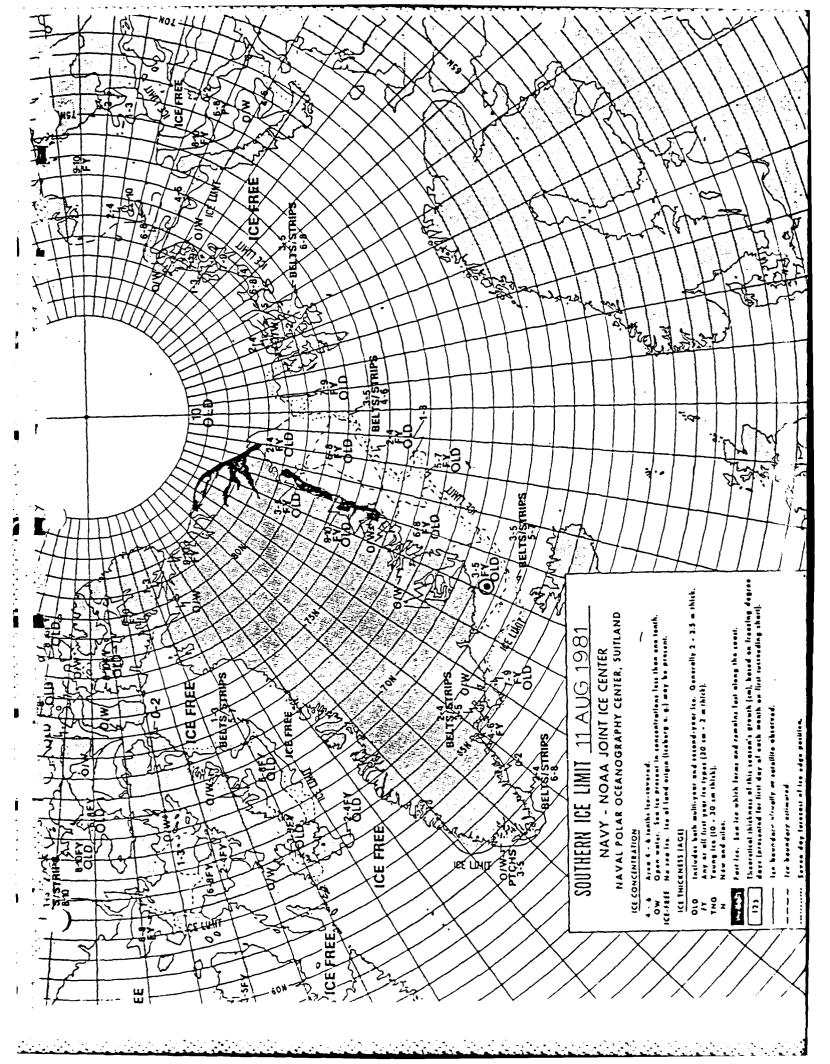


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JULIAN DAYS: 224 TO 239 Aug 12-18, 81

UNPUT IN FILE SYNNIZZAR? THE NUMBER OF DAIN SOMFLES IS 56

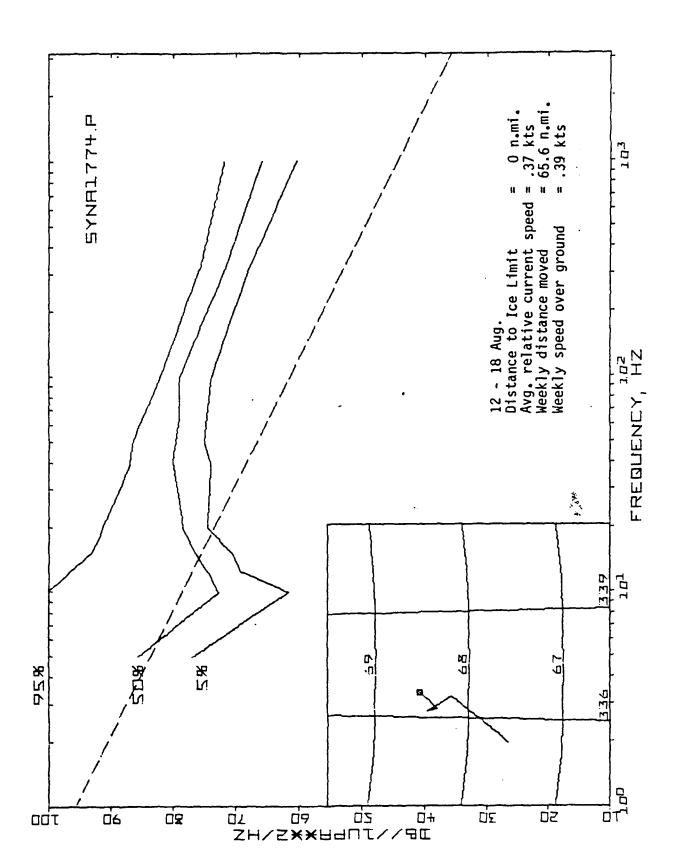
MAX (116.5 108.6 106.9 104.0 102.5 90.4 89.7 87.3 87.2 78.4 100.1 96.2 92.6 91.2 86.4 85.0 81.9 75.6 12171 9.96 96.6 93.3 90.5 87.7 83.7 81.2 84.1 96.8 84.5 82.1 81.7 73.8 30.5 50% 85.6 72.5 74.3 80.0 79.0 73.4 78.9 80.3 66.5 77.5 77.6 77.0 71.5 73.9 76.6 75.3 52 76.8 61.5 69.2 70.7 75.1 74.5 73.8 67.8 73.9 60.3 60.4 68.3 70.7 73.1 71.4 73.5 72.0 72.0 67.1 11.7 11.7 77.0 78.2 79.8 80.5 20.1 80.2 79.3 78.4 80.1 FREGUENCY 50.0 63.0 20.0 100.0 0 0 40.0 10.0 12.5 15.6 320.0 0.000

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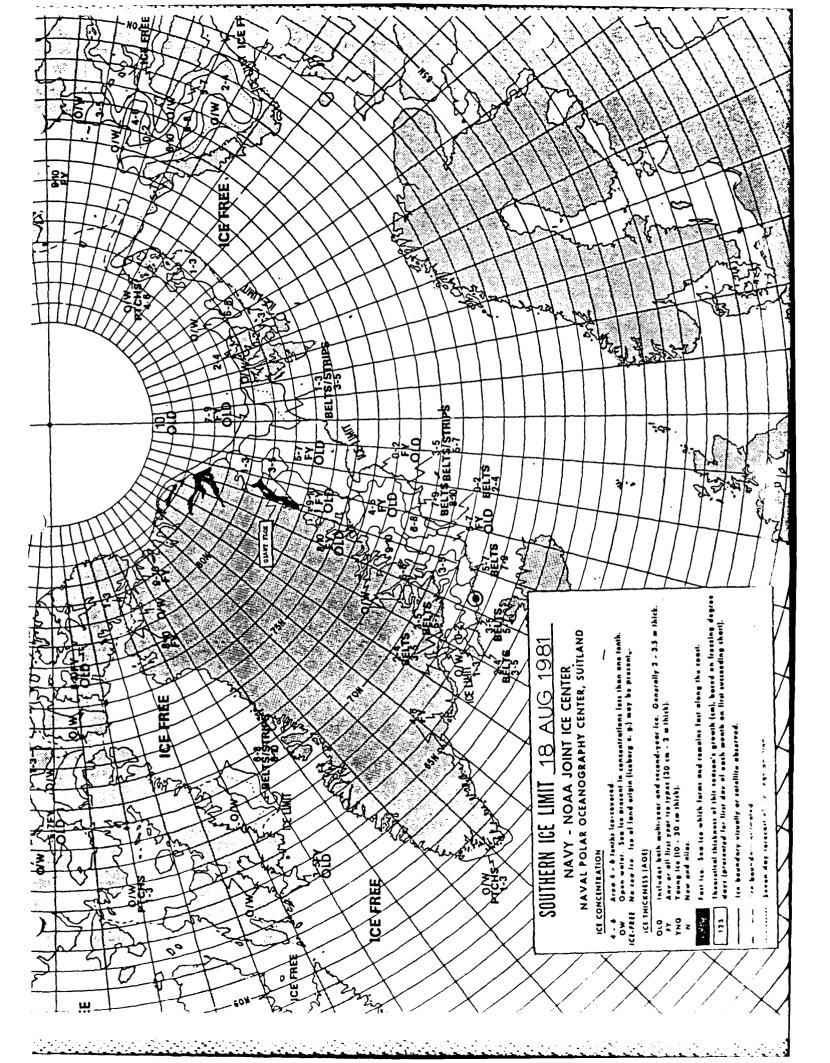
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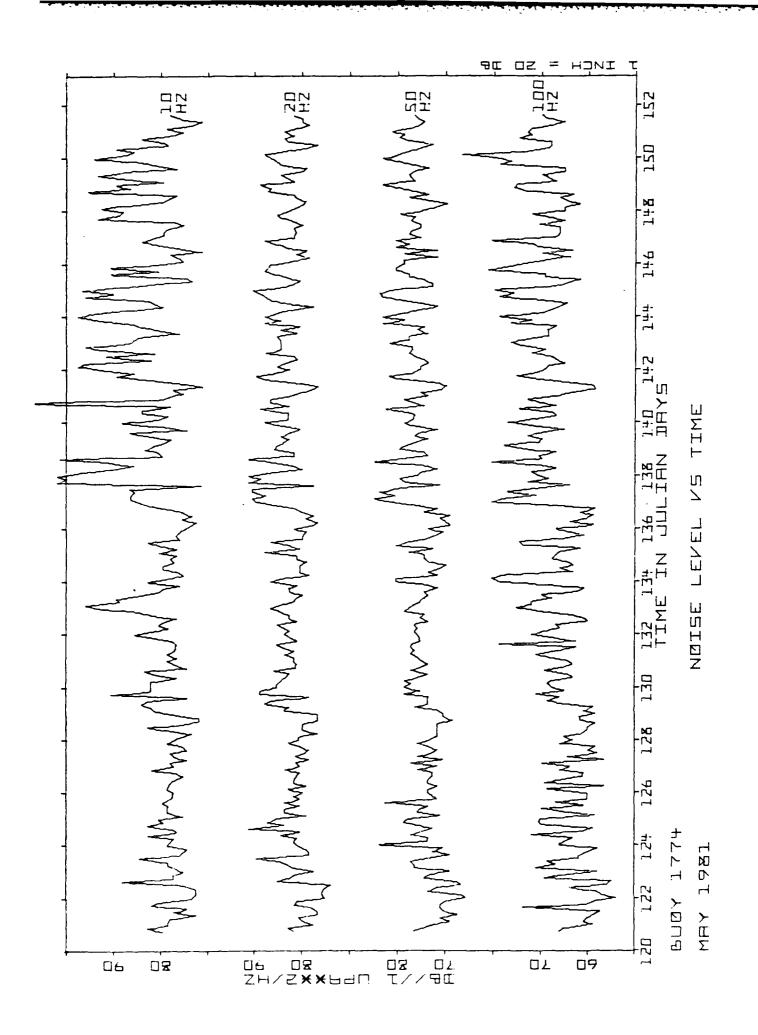


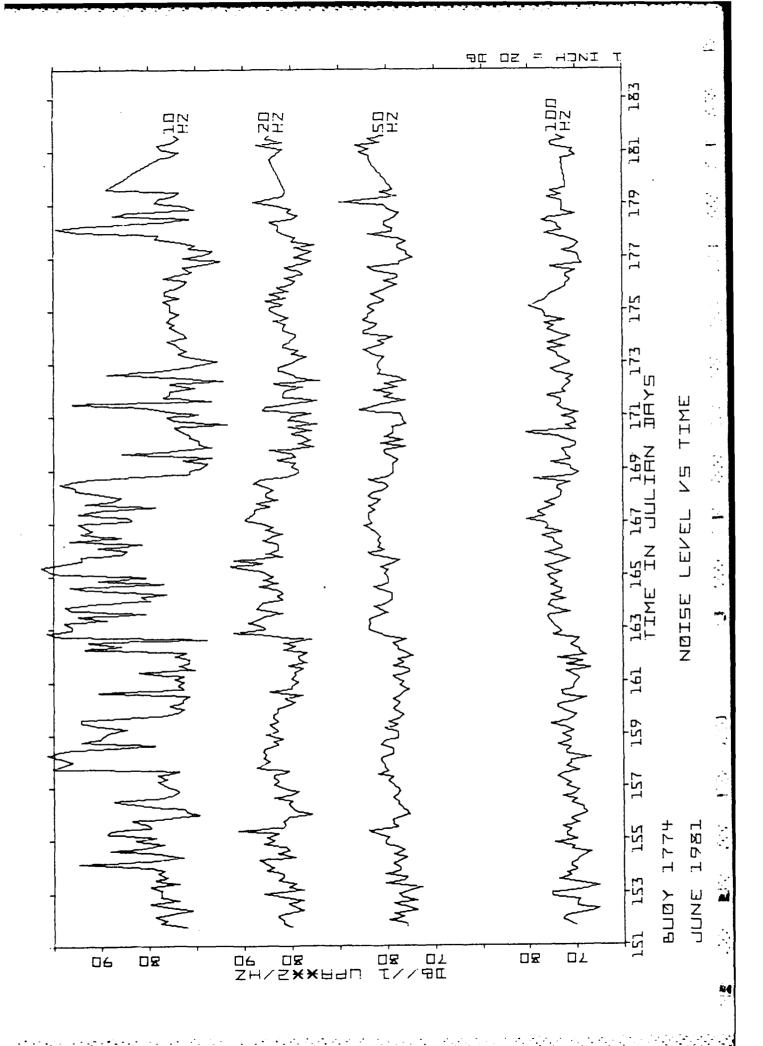
JULIAN BAYS: 231 10 237 (not plotted)

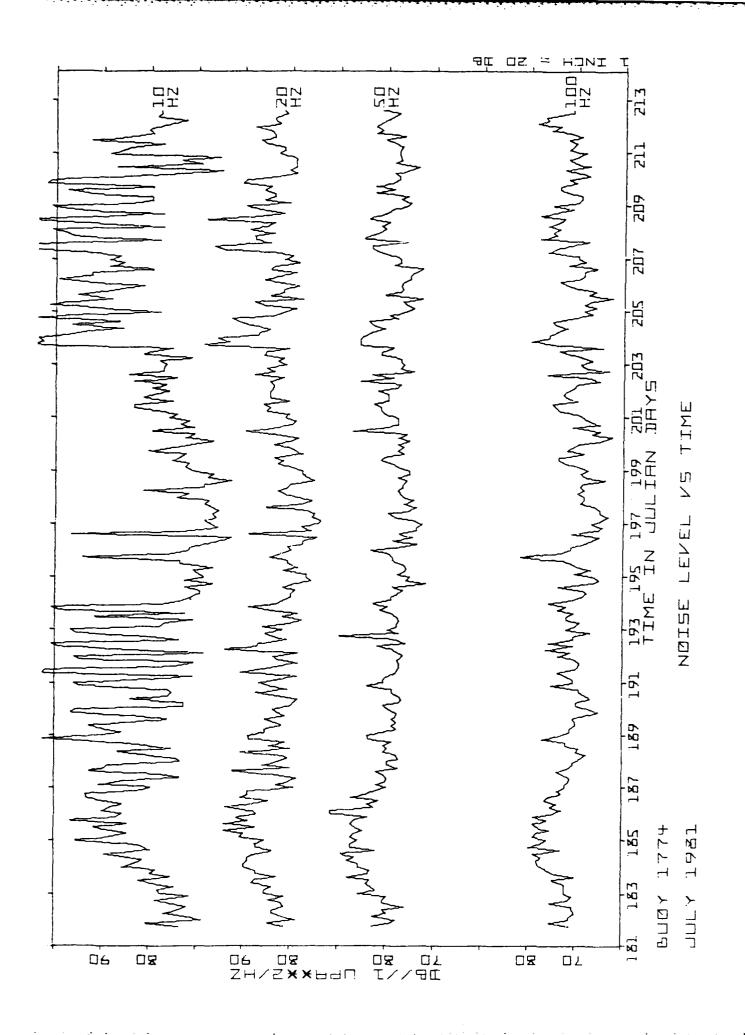
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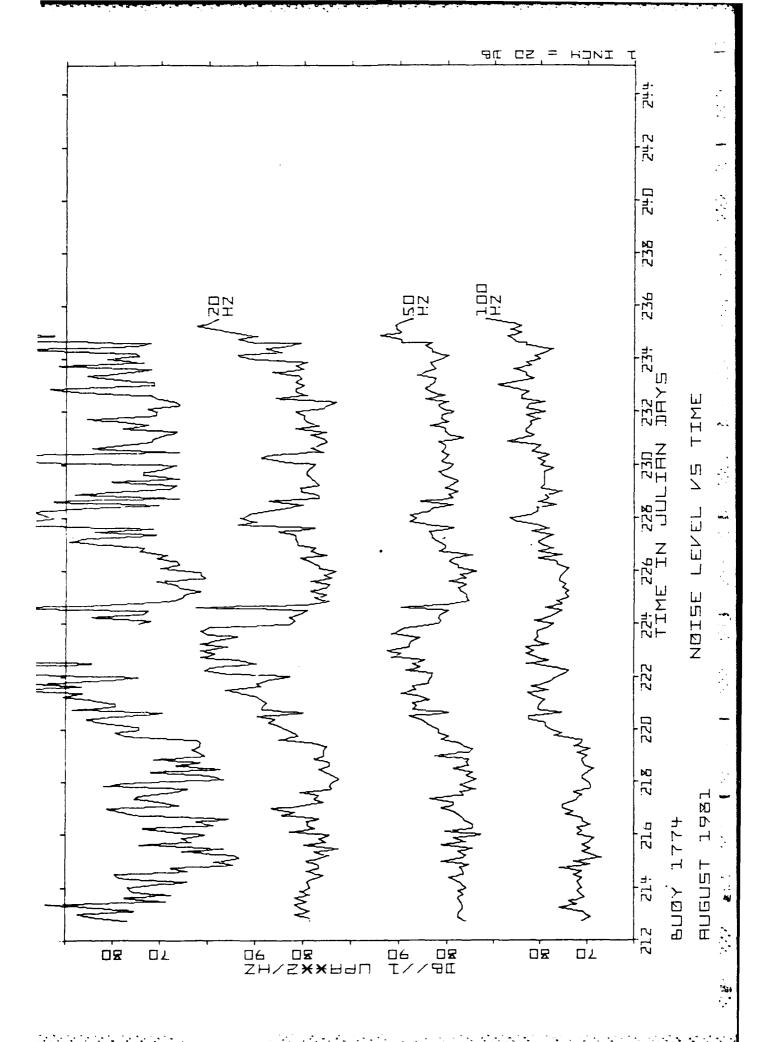
Σ	711.7	112.9	108.6	107.6	104.7	102.5	92.0	93.9	o. 1%	91.8	81.6	73.4
							90.4					
300	70%	110.4	104.5	101.6	99.8	95.6	00 00 00	89.7	89.1	80. 80.	77.5	72.4
												70.6
- 44							60 82 83					
Σ	25%	0.00	71.3	73.3	76.7	79.1	80.0	81.2	81.2	81.9	74.4	67.4
;	10%	05. 0.3	2.64	8.07	75.1	75.6	78.4	7.62	79.0	73.9	73.1	66.4
	22	7.5.6	16. A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A	70.07	74.5	75.0	77.5	78.7	79.0	78.9	72.4	65.6
	MIM	78.7	0 57	70.0	72.5	73.1	7/. 4	76.55	77.0	77.0	70.6	69.0
STD												8
	5VG	0.00) v) () ()	1 03	24.1				000	20.00	69.2
FREGUENCY	HZ	e e) (<u>)</u>	7 '31 7 '31		0.00) () () ()	100.0	0.000	1000.0
_				,								

~







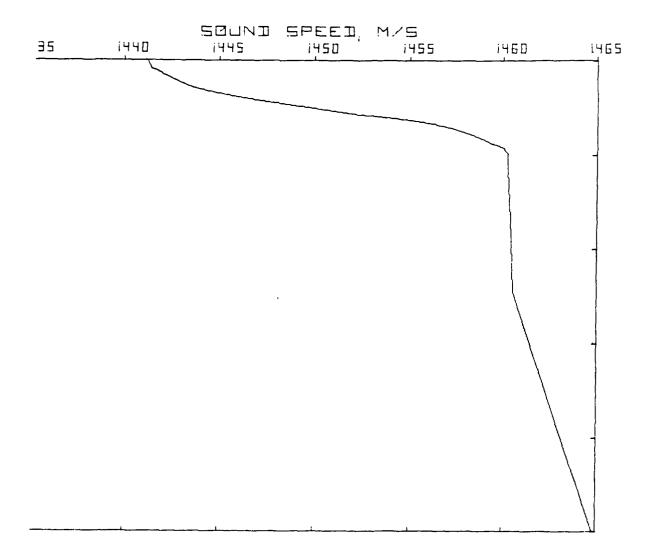


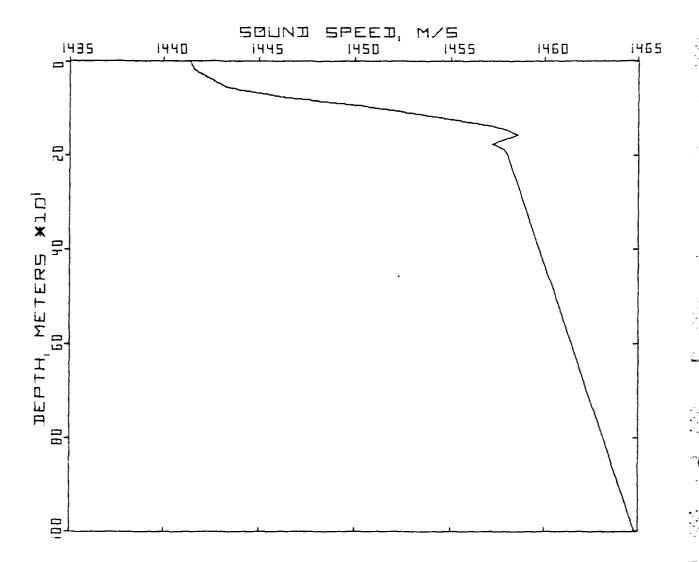
SOUND VELOCITY PROFIES

Taken by Data Buoy I.D. 1774

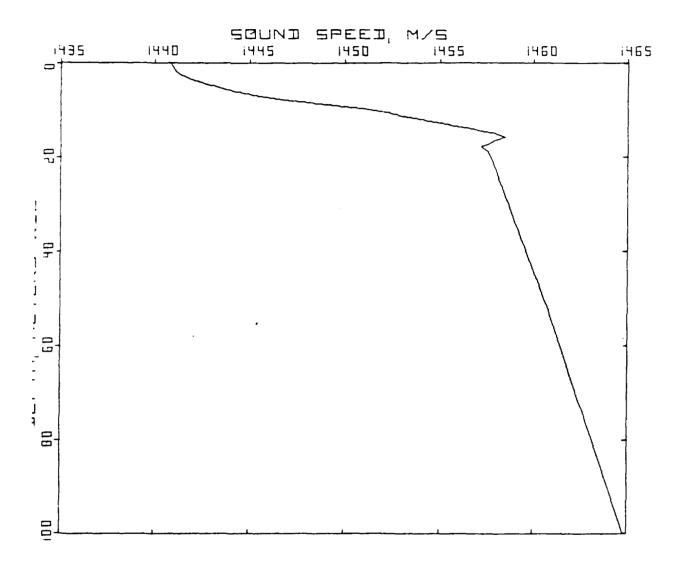
(SVP's derived from weekly averages of temperature string and assuming 34 parts/thousand salinity.)

FRAM III, D1-D7 JULY 81

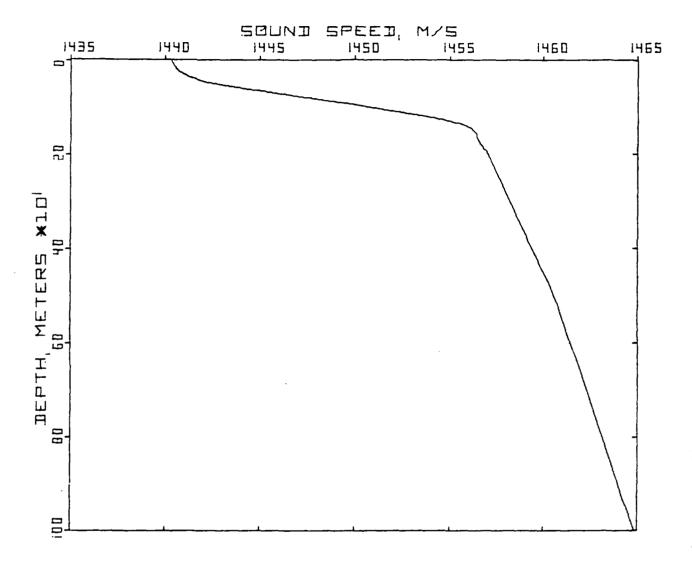


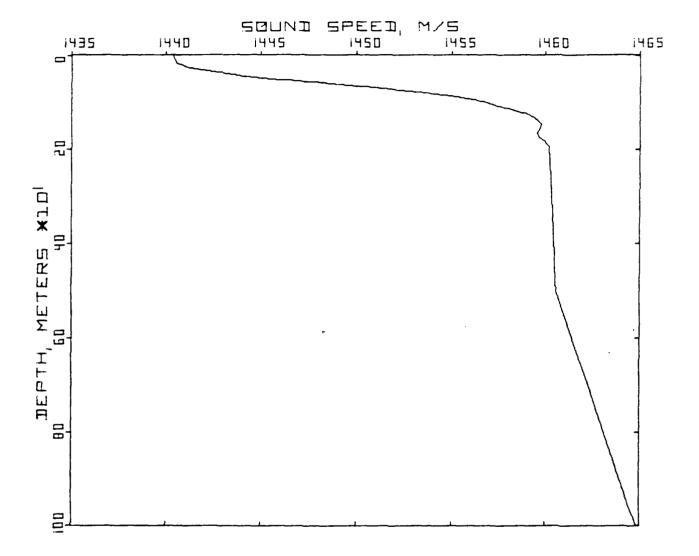


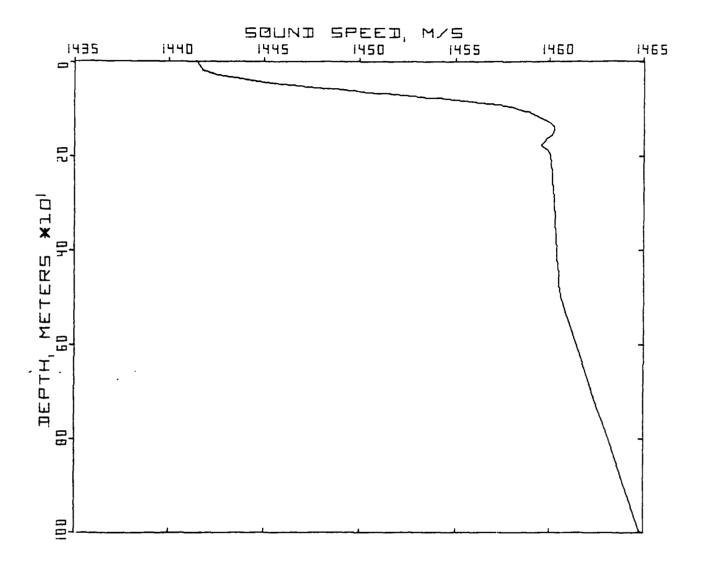
FRAM III, 17-23 JUNE 81



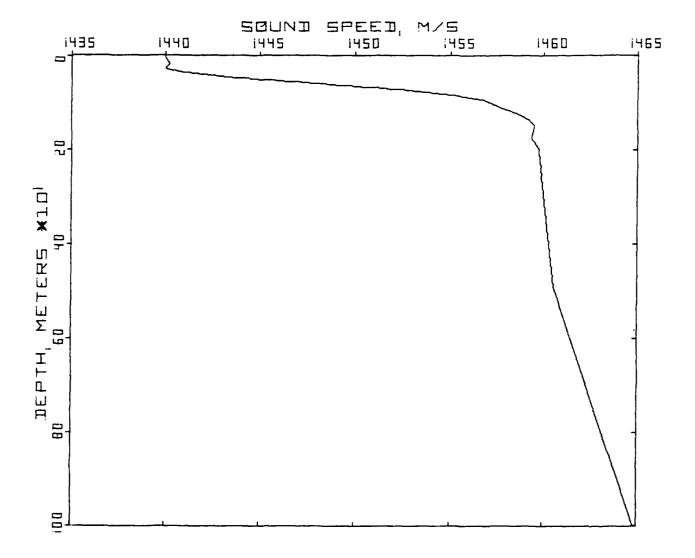
FRAM III, 10-16 JUNE 81

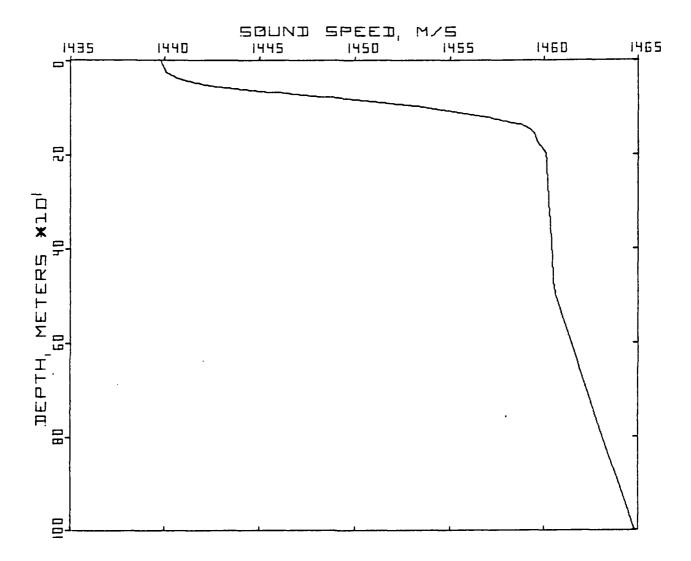


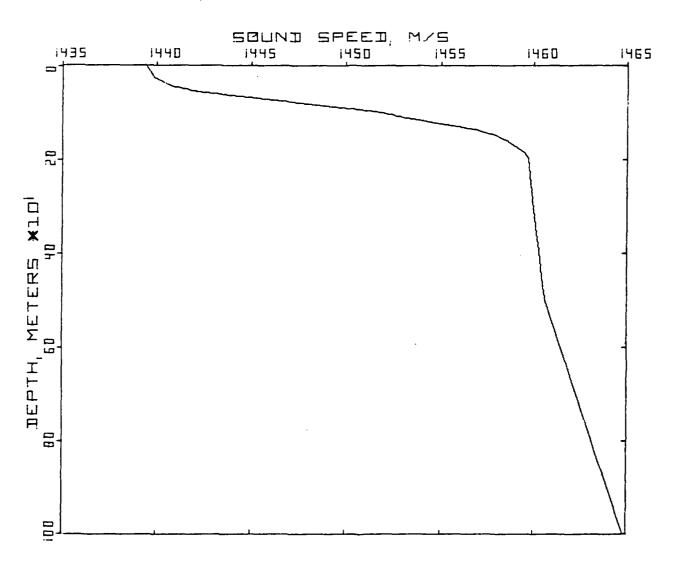




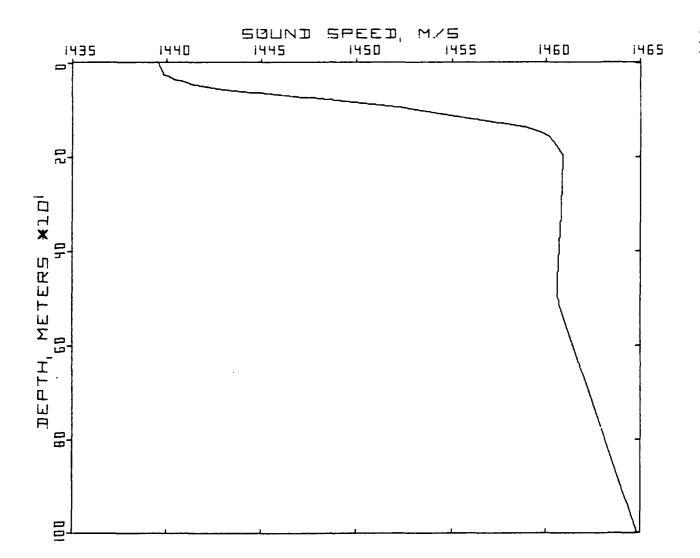
FRAM III, 20-26 MAY 81





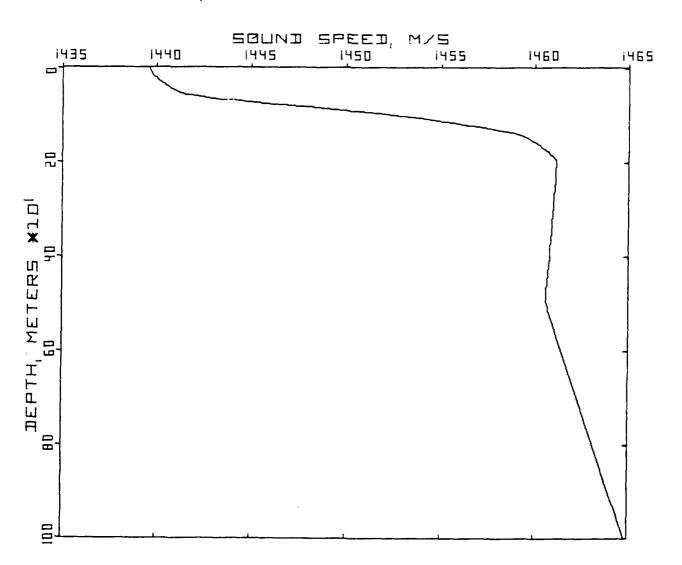


FRAM III, 29-05 MAY 81

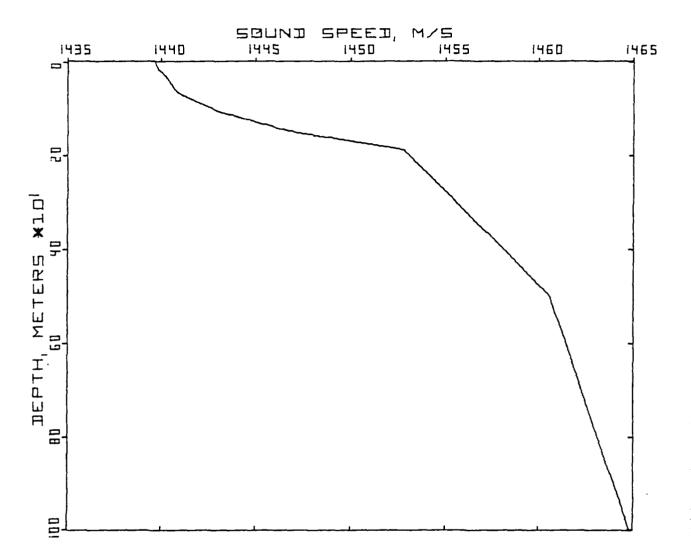


FRAM III, 22-28 APR 81

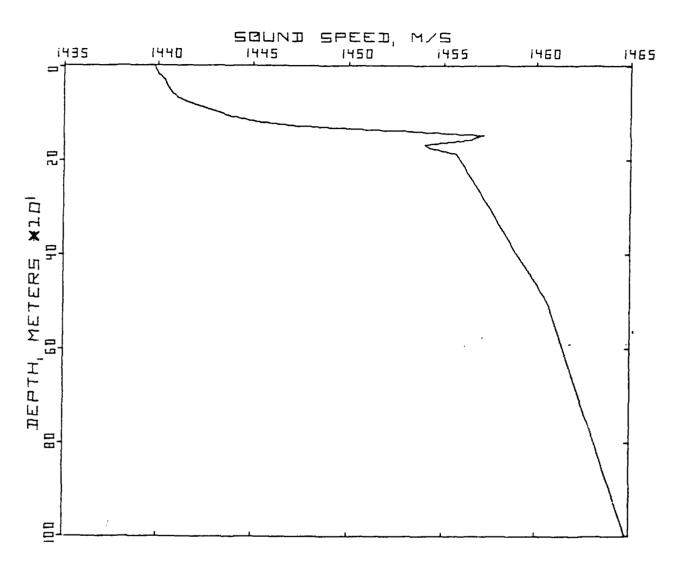
ā.



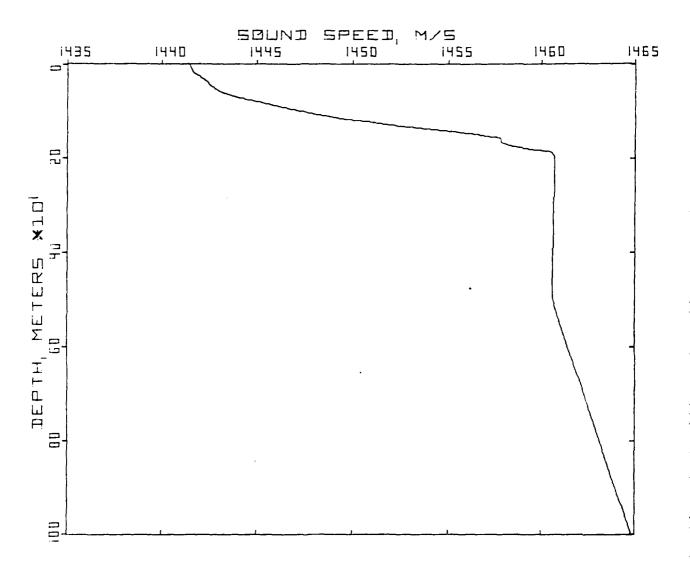
FRAM III, 15-21 APR 31



D

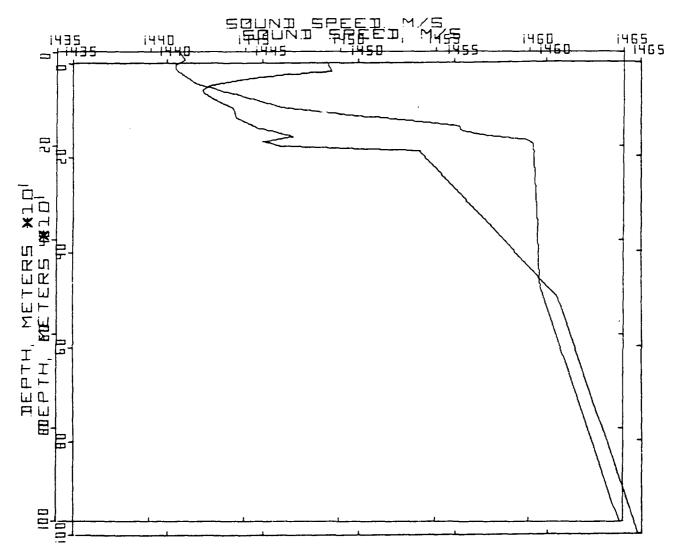


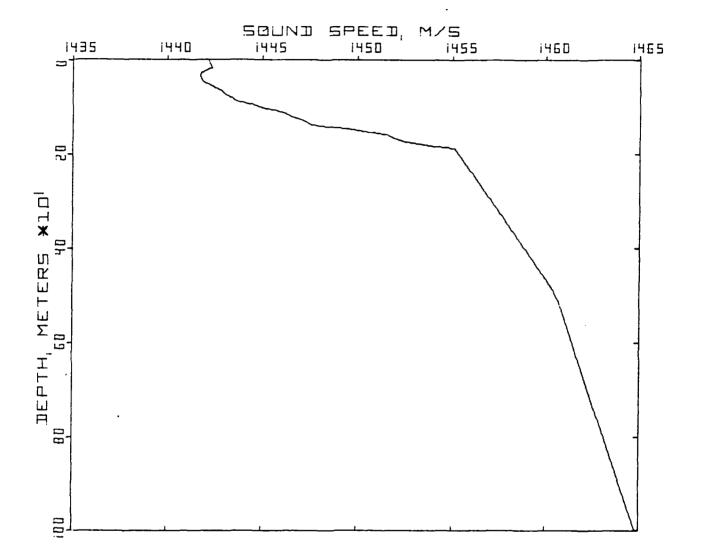
Track showing locations of Data Buow 1.0. 1774.



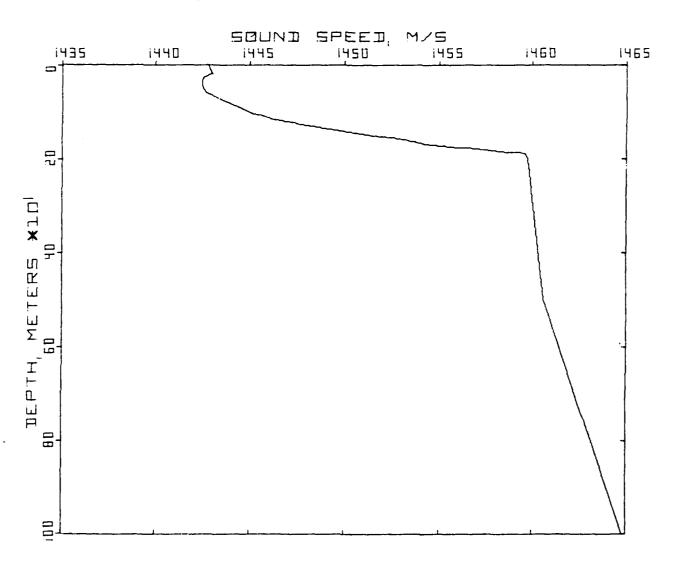
FRAM II'I, 19-22 AUGUST B1

a

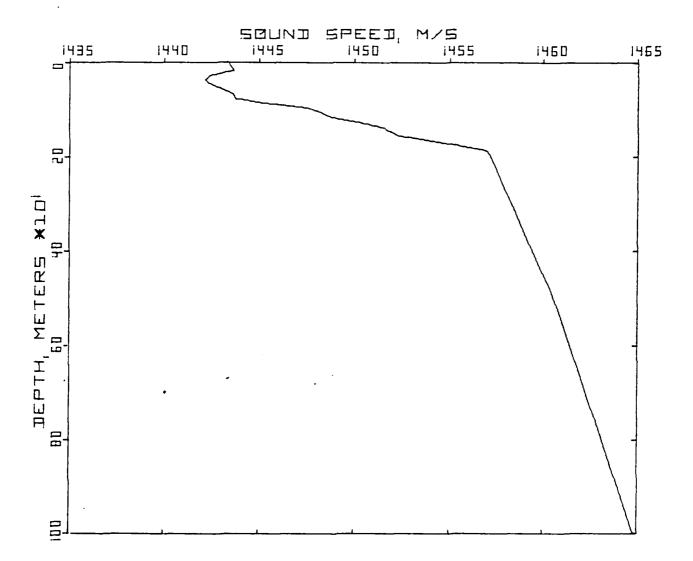


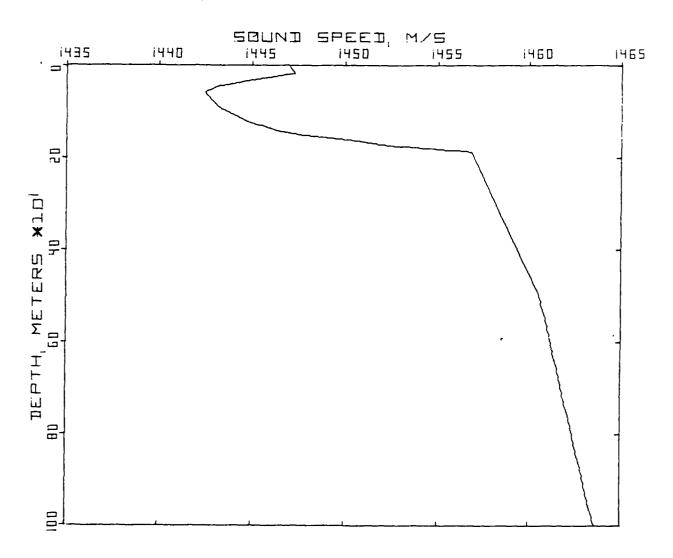


O

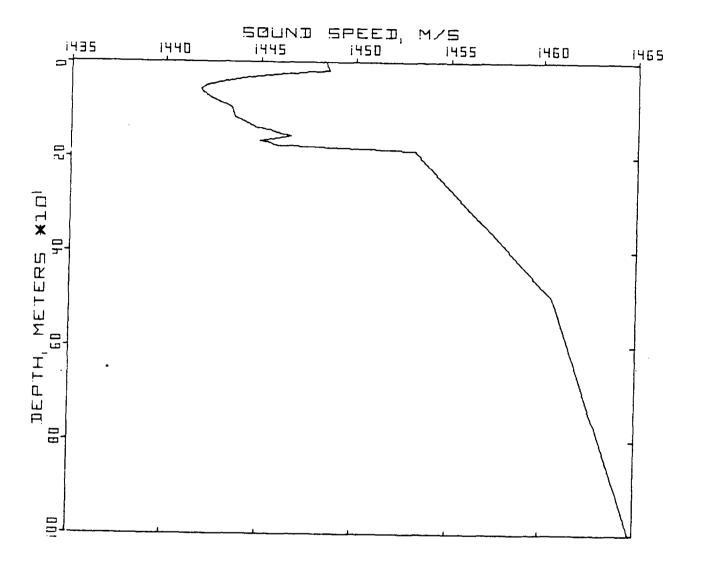


FRAM III, DS-11 AUGUST 81





FRAM III, 19-22 AUGUST 81



APPENDIX 5

Date Buoy I.D. 1784

Life in Reporting Area 2 (West Greenland Sea)

1 June 1982 - 24 July 1982

Type: 4-Level SYNARGOS (5 - 1000 Hz)

BUOY ID 1784

JUNE 1982

DAY	ĢMT	POSIT	TON		DAY	GMT	POS	SIT	ION
152	036	81.857 N	3.588	F.	167	126	80.969	N	0.410 E
152	1305	81.840 N	3.500	Æ	167	1314	80.955	N	0.390 E
153	012	81.812 N	3.364	E.	168	103	80.831	N	0.334 E
153	1206	81.808 N	3.335	E	168	1250	80.302	Ν	0.357 E
154	049	81.751 N	3.050	E	169	039	80.668	N	0.300 E
154	1238	31.742 N	3.032	Ε	169	1226	30.648	N	0.227 E
155	037	81.698 N	3.034	E.	170	015	80.558	Ν	0.063 E
155	1229	81.698 N	3.030	E	170	1206	80.539	Ν	0.066 E
156	025	81.657 N	2.876	E	171	049	80.459	N	0.177 W
156	1215	81.659 N	2.881	Ε	171	1238	80.447	Ν	0.198 W
157	013	81.609 N	2.749	E	172	038	80.345	N	0.421 W
157	1206	81.605 N	2.771	E	172	1225	80.342	Ν	0.423 W
158	006	81.559 N	2.526	E	173	024	80.251	N	0.383 W
153	1324	81.535 N	2.340	E	173	1213	80.246	Ν	0.357 W
159	113	81.480 N	2.019	E	174	011	80.149	N	0.311 W
159	1301	81.478 N	2.050	Ε	174	1205	80.145	Ν	0.264 W
160	051	81.435 N	1.910	E	175	005	80.067	Ν	0.274 W
160		81.433 N	1.922		175		80.069		0.238 W
161	025	81.375 N	1.637	E	176	115	79.982	Ν	0.326 W
161	1214	81.362 N	1.686	Ε	176	1302	79.942	N	0.273 W
162		81.316 N	1.509	E	177	051	79.901	Ν	0.084 W
162	1245	81.301 N	1.383	Ε	177	1238	79.895	N	0.009 W
163	043	81.262 N	1.146	F	178	027	79.808	Ν	0.030 E
163	1232	81.257 N	1.157	E.	173	1215	79.791	N	0.011 W
164	031	81.205 N	0.919	Ε	179	005	79.700	N	0.124 W
164	1220	31.200 N	0,888	E	179	1205	79.640	N	0.321 W
165		81.149 N	0.672	E	180	041	79.616	N	0.269 W
165		81.144 N	0.646	Ε	180	1231	79.614	Ν	0.281 W
166	900	81.072 N	0.474	E.	181	029	79.588	N	0.015 W
166	1206	81.061 N	0.432	Ε	181	1218	79.574	Ν	0.021 E

BUOY ID 1784

DAY	GMT	POSIT	ION		DAY	GMT	POS	SIT	ION	
182	017	79.530 N	0.478	E	194	053	78.249	N	3.941	W
132	1207	79.509 N	0.501	E	194	1242	78.094	Ν	3.994	W
183	005	79.418 N	0.500	E	195	029	77.946	Ν	4.087	W
183	1205	79.402 N	0.469	E	195	1218	77,802	Ν	3.885	W
184	005	79.369 N	0.561	Ε	196	_	77.657	N	3.810	•
184	1315	79.338 N	0.713	E	196	-	77.489	N	3.611	
185	104	79.307 N	0.633	E	197	043	77.422		3.194	
185	1252	79.261 N	0.696	E	197	1229	77.413		3,105	
186	040	79.203 N	0.721	E.	198	029	77.331	N	2.737	-
186	1228	79.150 N	0.596	Ε	198		77.295		2.680	
187	017	79.103 N	0.441	E	199		77.080			W
187	1205	79.071 N	0.252	E	199	1205	77.050	Ν	2.781	
188	047	79.022 N	0.000	W	200	006	76.978	N	2.694	W
188	1238	79.014 N	0.039	W	200	1205	76.956	Ν	2.600	W
189	035	78.916 N	0.723	W	201	131	76.931	Ν	2.460	W
139	1223	78.893 N	1.247	W	201	1317	76.904	Ν	2.300	W
190		78,920 N	1.837	W	202	107	76.860	N	2.074	W
190	1212	78.937 N	1.960	W	202	1254	76.807	N	1.835	W
191	011	78.932 N	2.361	W	203	043	76.785	N	1.583	W
191		78.923 N	2.422	W	203	1230	76.691	Ν	1.543	W
192	005	78.868 N	2.521	W	204	018	76.660	N	1.518	W
192	1328	78.612 N	2.662	* *	204	1207	76.604	N	1.556	W
193	117	78.479 N	2.713	W	205	047	76.529	Ν	1.896	W
193		78.352 N	3,423	W						
4 2 -2										

DATA BY MONTHS

JUNE 1982 MUGY: 1784

IN FILE SYNA1784

EMENT (N. MI.): 141.261 NORTH:-136.979 EAST: -34.518 ON (TRUE): 194.163

IBER OF DATA SAMPLES IS 240

* SOFT

ENC	Υ	STD					MEDIAN					
	AVG	DEV	MIN	5%	10%	25%	50%	73%	20%	95%	MAX	N
.0	78.5	7.2	60.6	48.O	69 . 9	73.3	78.4	82.5	88.6	92.1	101.6	240
. 0	68.4	7.6	56.3	59.3	60.4	62.1	66.4	73.3	73.4	82.3	93.7	240
.5	70.3	5.1	58.6	66.6	66.6	66.6	68.3	72.6	77.0	81.1	93.2	240
.6	69.3	5.1	59.5	64.2	64.2	65.7	67.5	71.7	77.0	79.5	88.3	240
, O	66.6	5.2	59.8	61.0	62.0	62.9	65.2	68. 9	73.0	76.5	89.9	237
.0	64.3	4.1	57.1	59.6	60.3	62.1	64.0	66.3	69.1	72.3	82.1	240
. Q	65.6	4.1	57.4	60.2	61.0	63.1	65.3	67.8	70.3	73.1	81.2	240
.0	64.9	4.4	54.3	53.1	40.O.	61.6	45.1	67.6	70.1	72.0	73.9	240
Q .	61.5	4.7	49.7	53.4	55.5	57.7	62.1	64.6	67.5	60.7	76.6	240
(, Q	50.9	3.7	35.7	46.5	47.2	48.6	50.7	53.2	55.2	56.8	64.5	240
(0,0)	37.8	5.4	25.9	28.2	30.8	34.3	38.4	40.9	44.4	46.9	60.9	240

IMBER OF DATA SAMPLES IS 240

= 100FT

JENC	Υ	STD					MEDIAN	!				
9	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	1.3
5.0	82.9	9.Q	60.1	71.2	73.1	76.5	81.4	89.3	96.0	98.ଟ	103.8	27(1)
0.0	74.6	6.1	64.8	67.1	68.3	69.9	73.1	78.4	83.7	36.9	94.0	240
2.5	74.8	3.7	48.6	70.5	71.3	72.1	74.0	75.6	80.6	83.4	90.2	240
5.6	74.8	2.3	70.1	70.7	71.7	72.6	74.2	76.7	78.5	30.2	86.8	240
0.0	75.5	2.7	70.7	71.9	71.9	73,8	75.4	77.3	78.9	80.7	83.9	240
0.0	73.1	0.0	44.7	69.0	70.2	70.9	72.7	74.6	76.2	77.6	89.0	240
), O	71.7	3.7	44.3	45.5	66.8	69.3	71.6	74.4	76.2	77.6	84.9	240
3.0	69.6	4.2	6.J.P	43.1	64.4	66.3	49.7	72.9	74.3	76.4	81.7	240
0.0	64.1	5.0	52.5	55.0	57.8	61.0	64.6	67.1	49.8	71.9	79.1	240
).O	52.9	4.9	36.9	41.4	49,3	50.9	53.4	55,4	38.3	60.5	67.4	240
0.0	40.2	5.5		31.8	33.0	06.8	39.5	44.Q	47.4	49.A	56.1	239

UNE 1982 BUOY: 1784

ER OF DATA SAMPLES IS 240

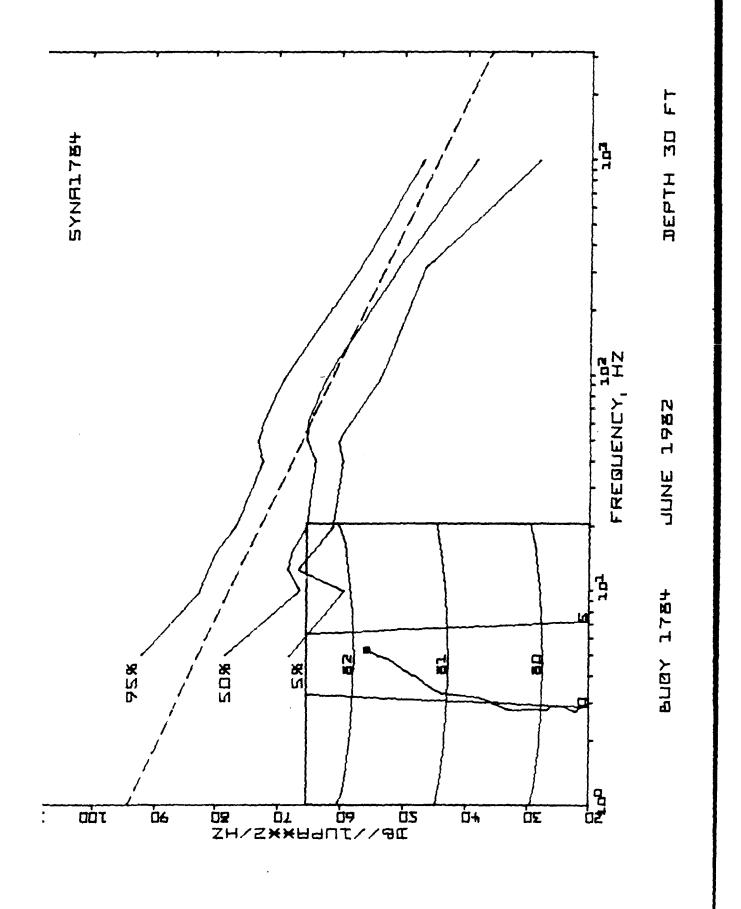
200FT

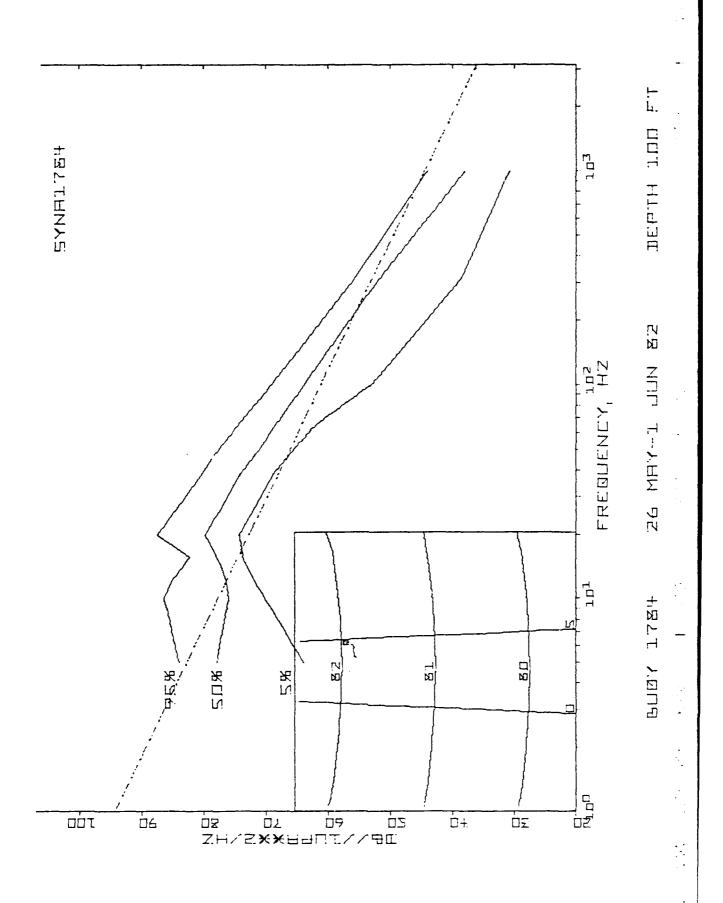
	Υ	STD					MEDIAN	1				
	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N.
1	93.6	11.1	69.6	78.7	80.1	84.7	92.8	101.0	107.4	113.6	124.0	237
i	86.0	9.5	70.6	74.6	76.0	77.3	83.3	92.6	100.7	102.9	114.2	239
ï	84.1	8.3	72.1	74.9	76.2	77.5	80.9	89.0	98.1	100.4	112.4	240
,	83.1	7.3	73.3	75.5	76.4	77.3	30.5	86.0	96.1	98.6	106.9	240
)	81.1	5.9	72.0	74.5	75.5	76.4	79.4	83.3	90.1	94.5	100.5	239
ŀ	74.3	4.4	62.2	68.3	70.1	72.0	74.3	77.2	79.7	82.2	90.9	240
)	72.3	4.9	59.5	64.8	65.4	48.9	71.4	74.9	78.5	80.2	89.5	240
)	48.3	4.3	55.5	60.9	62.4	64.2	68.4	71.2	73.7	75.7	85.8	240
)	64.9	5.3	48.1	57.8	58.3	61.1	65.4	68.6	71.4	73.2	78.3	240
)	53.7	4.4	41.7	47.7	48.5	50.3	53.6	56.8	59.6	61.1	68.3	232
)	46.7	5.5	28.5	36.0	41.5	42.7	47.0	50.1	53.1	55.2	61.3	228

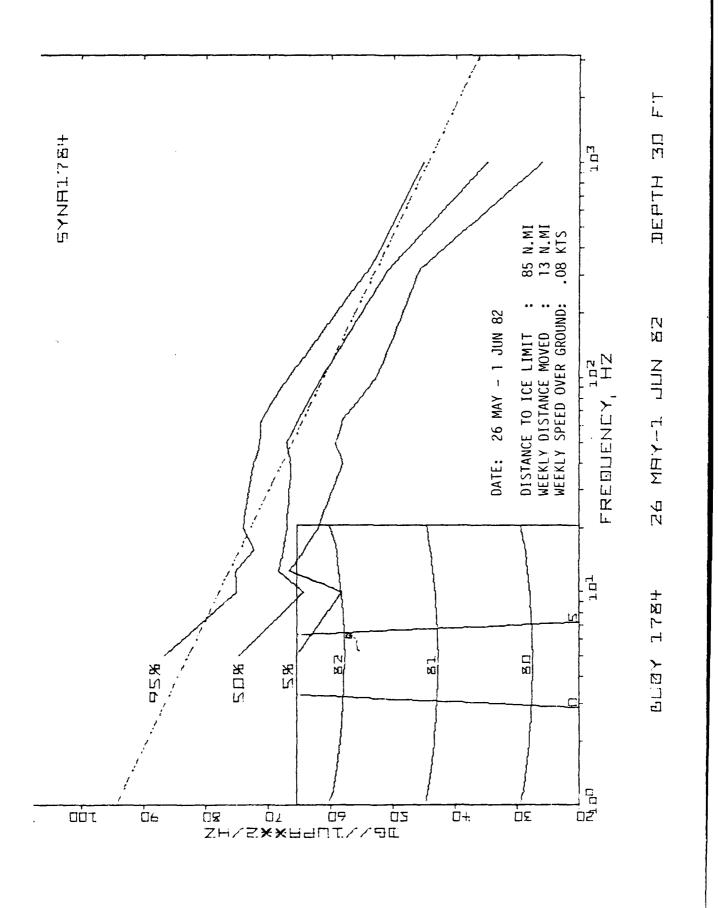
FER OF DATA SAMPLES IS 240

SOOFT

JI_	Υ	STD					MEDIAN	4				
	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
)	94.9	12.5	76.1	78.4	80.2	85.1	92.3	103.2	111.8	124.0	124.0	240
ì	.80.1	10.7	71.5	74.9	76.3	80.0	85.,0	93.1	105.3	106.1	112.4	240
5	84.9	9.4	70.8	74.5	75.8	77•. 7	81.2	92.5	100.6	101.8	103.9	240
:	35.2	8.7	72.7	76.6	77.4	79.3	81.8	37.3	100.9	102.8	104.4	240
)	82.7	7.8	69.5	73.7	75.5	77.4	79.7	84.3	97.8	98.4	99.6	240
)	74.4	7.0	61.0	64.B	66.4	70.2	72.7	76.8	87.1	88.9	92.4	240
)	72.8	7.3	56.8	61.5	43.4	68.4	71.9	76.0	84.0	88.1	90.6	-240 🛶
)	72.1	4.9	57.7	61.6	43.O	66.8	71.4	76.3	32.4	94.9	33.4	240
;	64.7	7.9	37.0	49.8	53,5	60.0	45.5	69.6	74,9	78.1	81.6	240
)	53.8	6.1	31.1	39.7	48.2	51.8	53.9	57.1	53.9	61.7	69.8	214
•	46.5	6.1	30.4	O., 5	39.B	42.7	47.1	50.7	53.2	55.7	61.7	162 🖹







3: 26 MAY-1 JUN 82 BUOY: 1784

NUMBER OF DATA SAMPLES IS 57

H ≈ 200FT

QUENC	Y	STD					MEDIAN				
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	20%	95%	MAX
5.0	86.6	10.0	72.0	73.7	74.5	78.7	84.9	91.5	101.0	102.8	124.0
10.0	83.6	6.2	74.6	76.6	77.2	78.6	82.0	86.6	90.9	93.4	102.9
12.5	83.1	6.1	74.4	75.6	76.3	79.1	81.6	85.2	91.2	96.2	102.2
15.6	82.0	4.9	73.6	76.1	77.3	78.7	81.6	84.1	86.6	88.5	101.4
20.0	81.3	5.5	70.8	72.6	75.3	77.4	80.0	84.7	88.5	91.4	95.3
40.0	72.9	5.0	59.8	63.2	66.4	69.5	73.6	76.1	78.9	80.3	81.6
50.0	70.3	4.8	59.5	60.4	64.8	66.4	70.8	73.3	74.9	77.4	80.2
63.0	66.0	5.4	51.4	55.5	58.2	62.4	67.0	70.2	72.1	73.0	76.2
00.0	62.2	6.2	43.2	48.9	55.1	58.3	63.2	66.3	68.6	୫୨.୫	73.9
20.0	51.7	4.4	38.6	46.8	46.8	49.2	50.8	53.6	58.8	59.6	62.9
00.0	43.9	4.6	32.3	36.0	37.3	41.5	44.1	45.0	48.2	49.2	59.1

NUMBER OF DATA SAMPLES IS 57

H = 300FT

TOUENO	Υ	STD					MEDIAN				
HZ.	AVG	DEV	MIN	57	10%	25%	50%	75%	20%	95%	MAX
5.0	86.6	8.4	76.1	77.0	77.7	79.7	84.3	90.5	94.2	98.3	124.0
10.0	34.4	5.5	74.4	76.2	78.1	80.9	84.1	86.9	92.1	95.0	100.4
12.5	82.2	5.6	71.7	73.3	76.5	77.7	81.2	83.7	89.2	90.8	99.3
15.6	82.8	4.4	74.9	76.6	77.7	79.9	81.8	84.6	87.9	90.6	97.4
20.0	81.4	5.2	70.3	73.6	76.3	77.4	80.4	85.1	87.6	91.1	95.5
40.0	71.8	4.8	61.0	62.3	65.8	68.9	70.8	75.7	77.9	78.8	80.4
50.0	70.0	5.1	56.8	61.3	62.1	66.5	70.7	73.5	75.3	76.0	78.5
63.0	69.8	5.8	55.0	58.8	61.6	66.2	70.3	72.8	76.3	78.8	80.8
.00.0	61.8	7.4	39.0	49.0	50.6	58.2	62.8	67.1	68.8	71.5	74.0
320.0	53.2	6.0	31.1	35.9	49.1	51.8	53.9	55.7	58.9	60.9	63.2
000.0	44.6	5.0	33.4	38.4	39.8	40.9	44.1	46.2	48.5	50.7	64.5

%(

: 26 MAY-1 JUN 82 BUOY: 1784

IT IN FILE SYNA1784

ACEMENT (N. MI.): 13.692 NORTH: -7.860 EAST: -11.211 :TION (TRUE): 234.995

NUMBER OF DATA SAMPLES IS 57

4 = 30FT

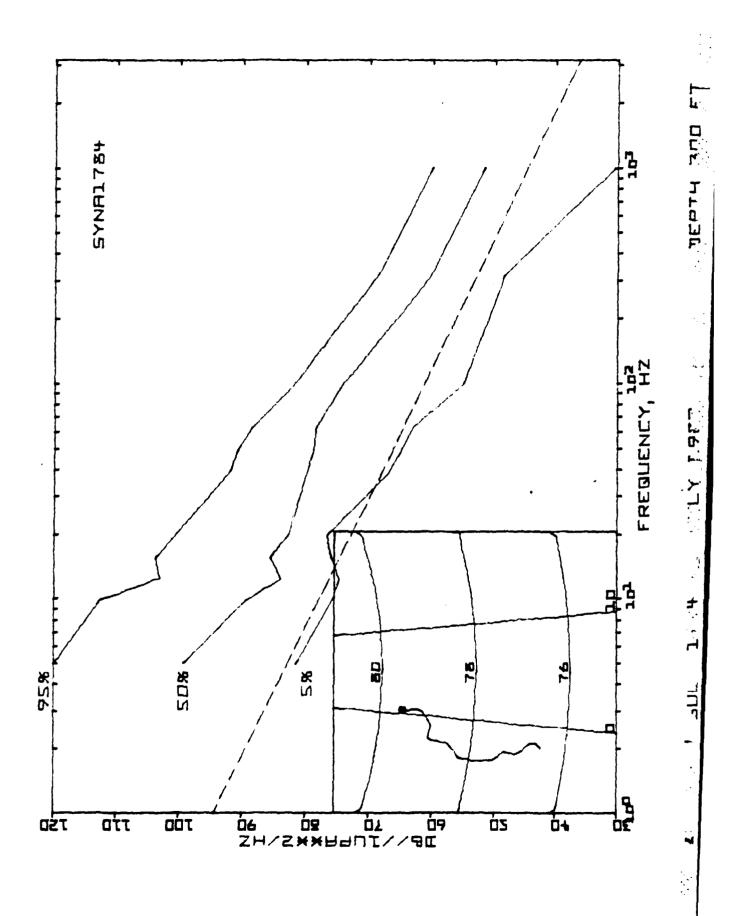
DUENC:	Υ	STD					MEDIAN	l				
٦Z	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
5.0	75.3	7.8	49.1	65.5	68.7	71.5	74.7	79.3	83.6	86.7	91.3	177
10.0	65.6	5.6	57.4	58.2	59.3	61.3	64.2	69.6	72.4	74.9	81.6	. 7
12.5	69.0	3.6	60.4	66.6	66.6	66.6	68. 3	71.0	72.6	75.1	84.7	57
15.6	67.9	2.5	60.6	64.2	65.0	66.3	67.5	69.4	70.3	72,3	74.5	57
20.0	67.4	3.9	58.5	62.0	62.9	64.5	67.0	69 . 8	72.4	74.0	77.9	57
40.0	65.4	4.0	56.9	58.0	59.6	62.1	66.3	67.5	70.0	72.3	74.1	57
50.0	66.1	3.8	56.3	59.3	60.5	63.1	67.1	69.1	70.3	71.3	73.1	57
43.0	64.9	4.1	55.6	58.1	58.1	62.3	65.1	67.6	70.1	71.1	75.0	57
00.0	60.8	4.8	50.6	52.6	53.4	57.7	61.5	63.7	66.2	66.9	68.7	57
20.0	49.9	3.7	35.7	45.6	46.5	47.9	50.7	52.5	53.9	53.9	57.7	57
00.0	35.4	5.7	25.9	26.1	27.6	30.8	34.9	39.1	42.8	45.1	49.7	ワ

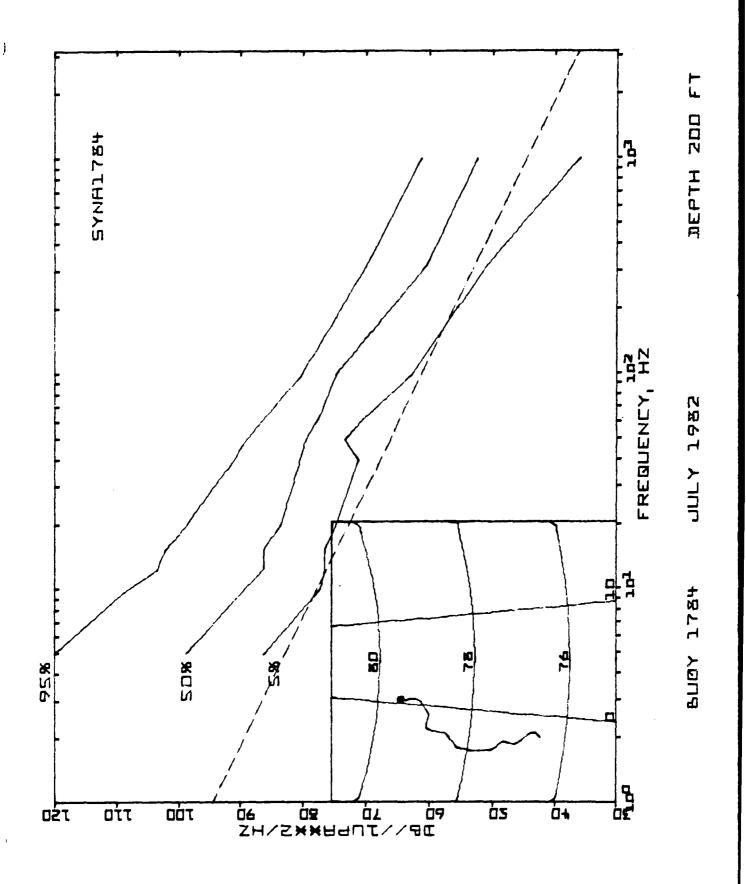
NUMBER OF DATA SAMPLES 18 57

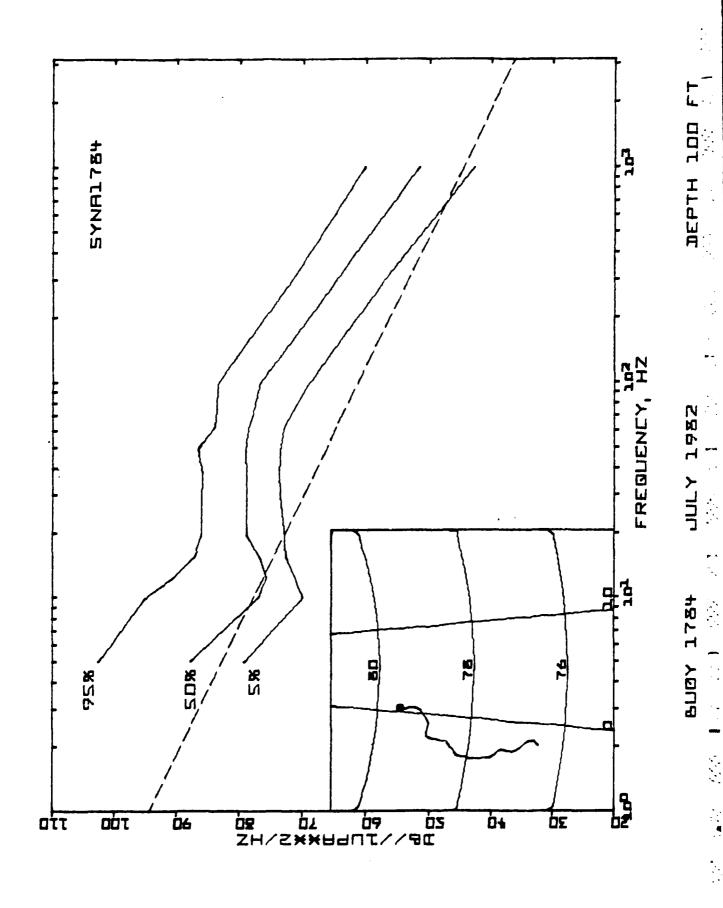
H = 100FT

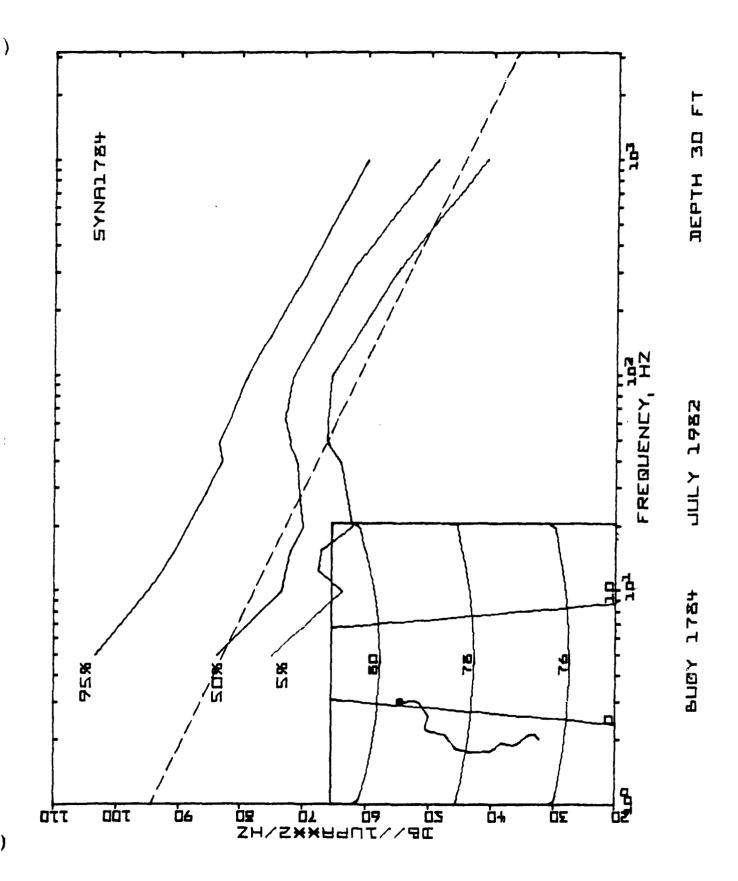
QUENC	Υ	STD					MEDIAN					
ΗZ	AVG	DEV	MIN	ラス	10%	25%	50%	フラス	90%	95%	MAX	N
5.0	77.0	5.2	63.1	63.8	69.9	73,7	77.9	79.7	83.2	83.9	85.7	1.7
10.0	76.5	4.7	68.9	69.9	71.6	73.0	75.9	80.3	82.8	86.4	88.0	1.7
12.5	77.3	4.0	69.4	72.1	73.4	74.6	76.5	79.4	83.4	84.8	86.6	57
15.6	77.9	2.8	72.3	73.6	74.2	75.8	77.7	80.2	80.9	82.2	84.7	57
20.0	80.0	4.1	72.7	74.2	75.4	77.3	79.8	81.4	86.7	87.5	91.9	57
40.0	73.9	3.8	66.7	68.B	69.5	71.5	73.7	76.2	78.7	79.8	83.6	37
50.0	71.3	3.8	64.3	65.5	65.6	69.Q	70.9	73.4	76.2	77.6	80.5	1.17
63.0	68.9	3.9	60.9	62.5	64.4	66.3	68.8	70.4	74.8	74.8	77.8	57
00.0	62.8	4.6	50.6	53.1	55.0	59.9	63.8	65.9	୫୫.1	69.O	70.6	57
120.0	51.1	4.7	36.9	38.3	43.0	50.2	51.6	53,4	54.4	55.4	58.3	137
OQ.O	37.4	4.0	29.6	30.7	31.8	34.0	38.0	39.6	41.3	44.0	48.1	7

DATA BY WEEKS









MONTH: JULY 1982 800Y: 1784

E NUMBER OF DATA SAMPLES IS 188

DERTH = 200FT

FREQUENC	Υ	STD					MEDIAN	1				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	25%	MAX	N -
5.0	99.8	10.5	80.1	86.1	88.0	91.5	98.8	105.5	113.6	124.0	124.0	187
10.0	91.0	11.2	55.3	77.2	78.8	83.3	39.3	99.4	103.8	103.2	122.0	188]
12.5	88.0	8.7	67.8	76.3	78.1	81.0	86.1	94.4	101.6	103.2	109.3	187
15.6	86.9	8.1	70.1	76.4	78.0	80.5	86.0	91.4	100.5	102.0	105.0	188 -
20.0	85.3	7.1	62.6	74.5	78.0	80.5	83.3	87.3	94.8	98.6	101.4	188
40.0	80.0	7.2	41.1	71.1	75.0	77.2	80.3	34.1	87.6	90.9	93.7	188
50.0	79.8	5.5	51.9	73.3	74.2	76.9	79.4	83.5	87.0	ଟଟ.୨	91.4	186
63.0	77.3	4.7	53.2	70.2	72.1	74.4	77.3	30.4	83.3	85.8	87.7	184
100.0	72.9	5.6	45.1	62.6	66.3	70.4	74.6	76.4	78.3	79.9	88.5	185 -
320.0	60.5	6.2	30.5	50.8	52.8	56.3	60.4	64.8	48.3	69.9	73.1	184
1000.0	50.9	7.9	24.4	36.0	39.3	46.4	52.4	56.2	60.2	61.3	72.3	169

THE NUMBER OF DATA SAMPLES IS 188

DEPTH = 300FT

FREQUENC	Y	STD					MEDIA	4				• •
HZ	AVO	DEV	MIN	5%	10%	25%	30%	75%	50%	95%	MAX	N
5.0	99.0	12.8	74.7	81.3	82.2	89.2	79.3	106.5	120.1	124.0	124.0	188
10.0	192.4	12.4	74.0	75.6	76.9	82.3	89.0	103.2	109.3	112.4	122.0	163
12.5	87.6	10.3	71.7	74.5	75.8	78.5	80.7	99.3	101.8	102.8	104.9	188
15.6	88.5	9.8	74.6	75.8	77.7	30.0	35.4	99.9	102.0	108.7	105.2	1331
20.0	\mathbb{S}_{0} . 4	E. 6	71.1	76.5	77.4	79.6	82.6	90.3	99.6	100.6	101.6	108
40.0	80.2	7.7	62.9	46.4	69.0	75.0	79.3	87.7	90.8	91.6	93.0	168
50.0	78.8	7.6	54.3	64.6	48.j	74.4	78.5	84.6	89.4	90.4	51.3	188 🕶
63.0	77.6	7.1	54.1	63.0	65.9	73.3	78.3	83.0	36.3	33.4	39.i	168 -
100.0	72.0	7.5	48.0	54.9	40.0	53.O	74.0	78.1	50.C	51.0	34.1	188
520.0	57.2	3. J	31.1	43.2	52.0	₹3.7	do O	ن. دی	46.9	60.5	72.5	177 -
1000.0	4.5.7	8.5	30.4	30.4	33.4	44.1	51.0			59.5	74.8	
ito#												• •

JUNTH: JULY 1982

BUGY: 1784

CUTPUT IN FILE SYNA1784

Displacement (N. MI.): 182.465 NORTH:-180.060 EAST: -29.528 DIRECTION (TRUE): 189.332

THE NUMBER OF DATA SAMPLES IS 188

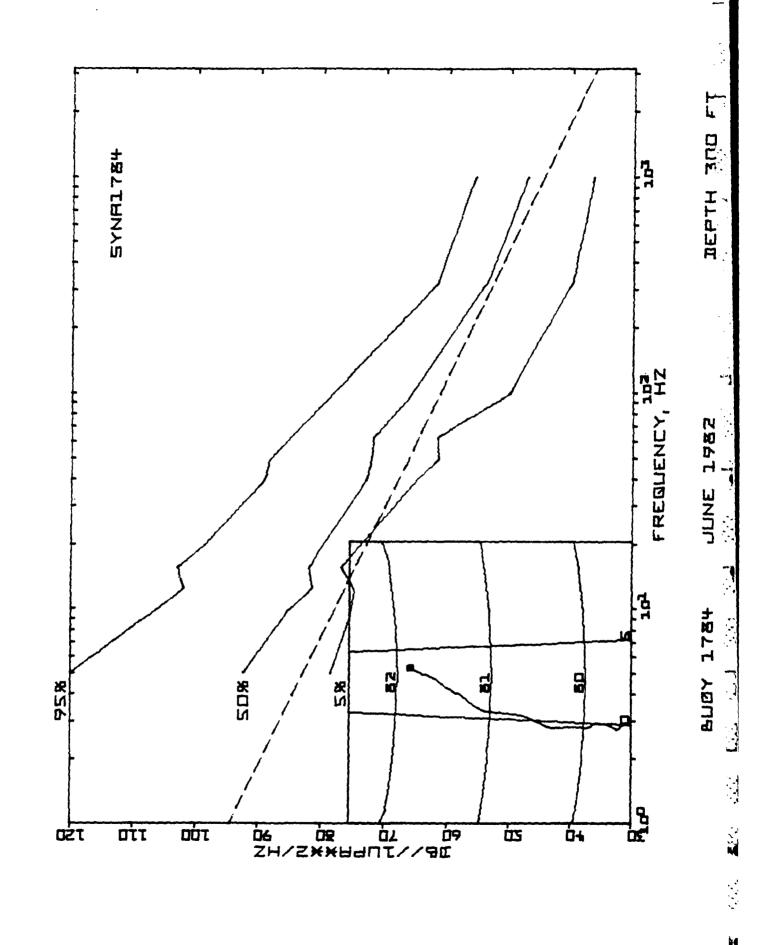
■DEPTH = 30FT

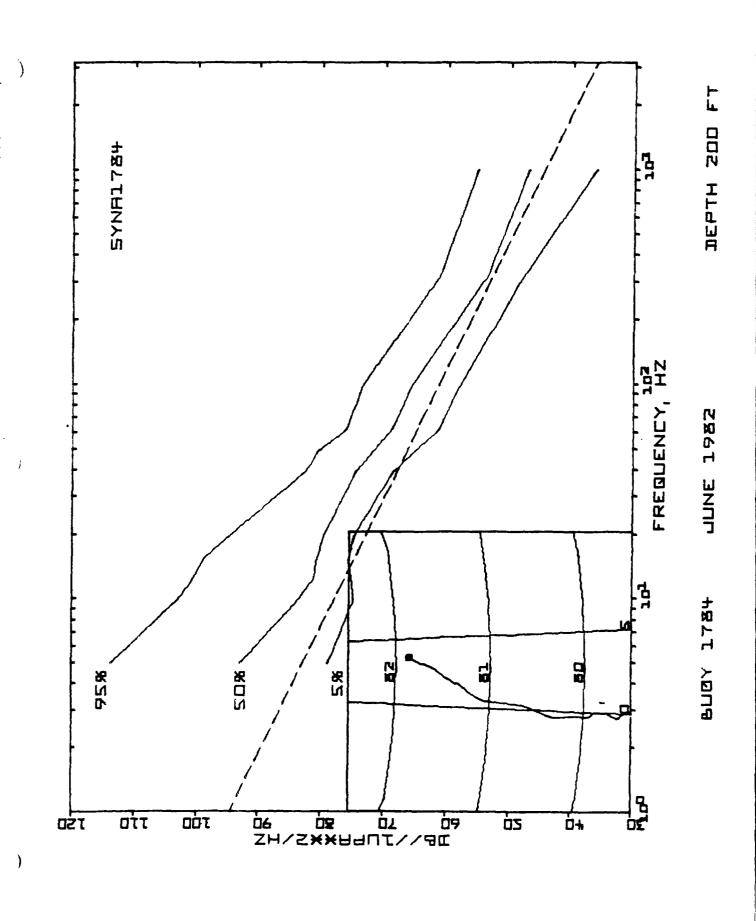
FREGUENC	Υ	STD					MEDIAN					
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	₹0%	95%	MAX	N
5.0	85.9	8.8	70.5	74.7	76.5	79.3	83.6	90.5	98.8	103.4	124.0	188
10.0	75.2	9.9	62.1	63.6	64.2	67.S	73.3	30.2	88.3	94.9	108.9	108
12.5	75.1	7.9	66.6	67.5	67.5	69.1	72.6	78.6	87.8	92.4	102.7	100
15.5	73.9	7.7	65. 0	66.9	66.9	68.5	71.7	77.0	85.6	90.4	101.1	188
20.0	72.1	ଷ.ଠ	59.8	62.0	63.7	65.8	69.8	75.8	83.2	88.6	98.1	180
40.0	71.9	5.4	61.5	64.0	65.6	68.1	70.9	74.1	79.O	82.9	91.6	1 603
50.0	73.4	4.8	64.B	66.2	67.8	.70.3	72.2	75.8	79.9	83.4	90.3	188
63.0	73.5	4.5	64.1	66.0	68.3	70.1	72.9	76.1	80.3	31.6	37.6	168
100.0	71.9	4.2	62.1	65.4	66.9	48.7	71.5	74.7	77.5	78.9	84.9	188
320.0	62.0	4.5	52.5	54.6	55.7	58.5	61.8	65.3	67.8	48.8	74.8	186
1000.0	49.9	5.8	37.6	40.9	41.9	46.3	48.8	52.9	56.4	60.0	69.8	188

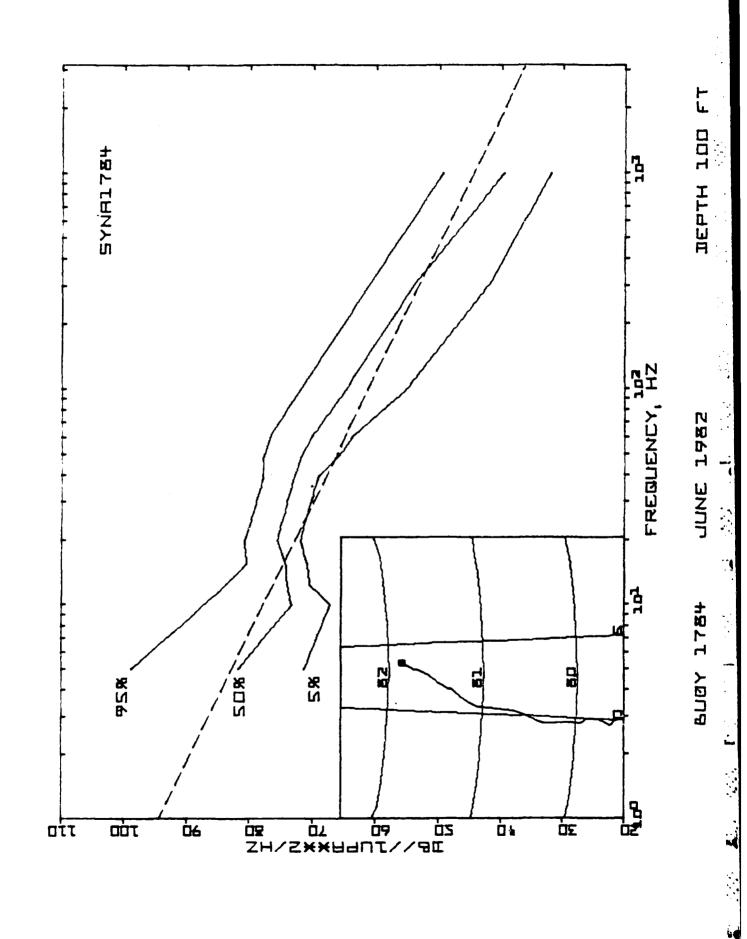
THE NUMBER OF DATA SAMPLES IS 188

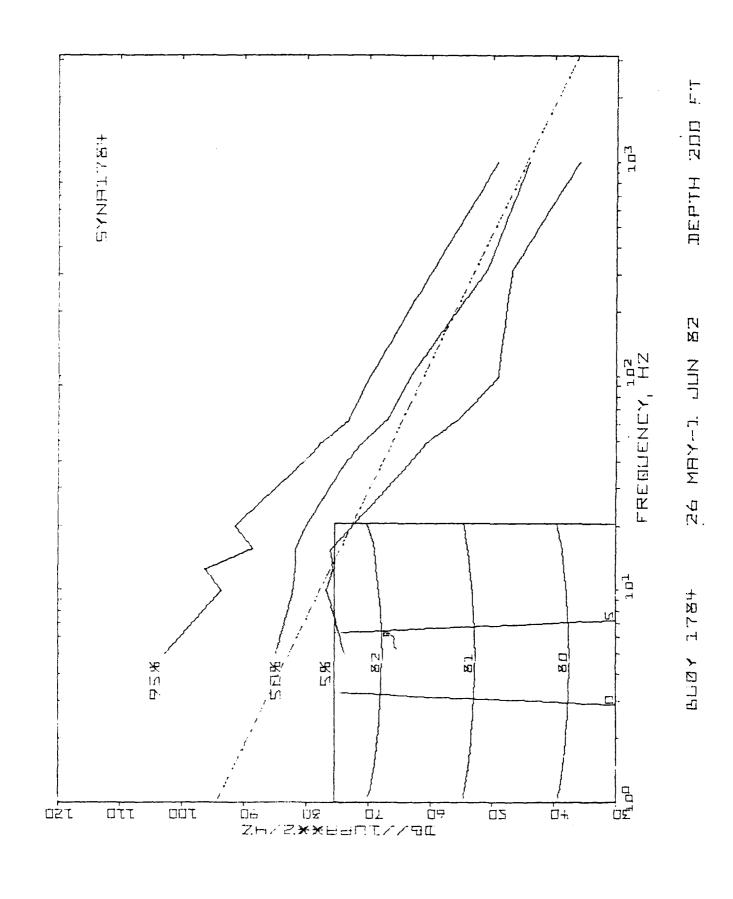
DEPTH = 100FT

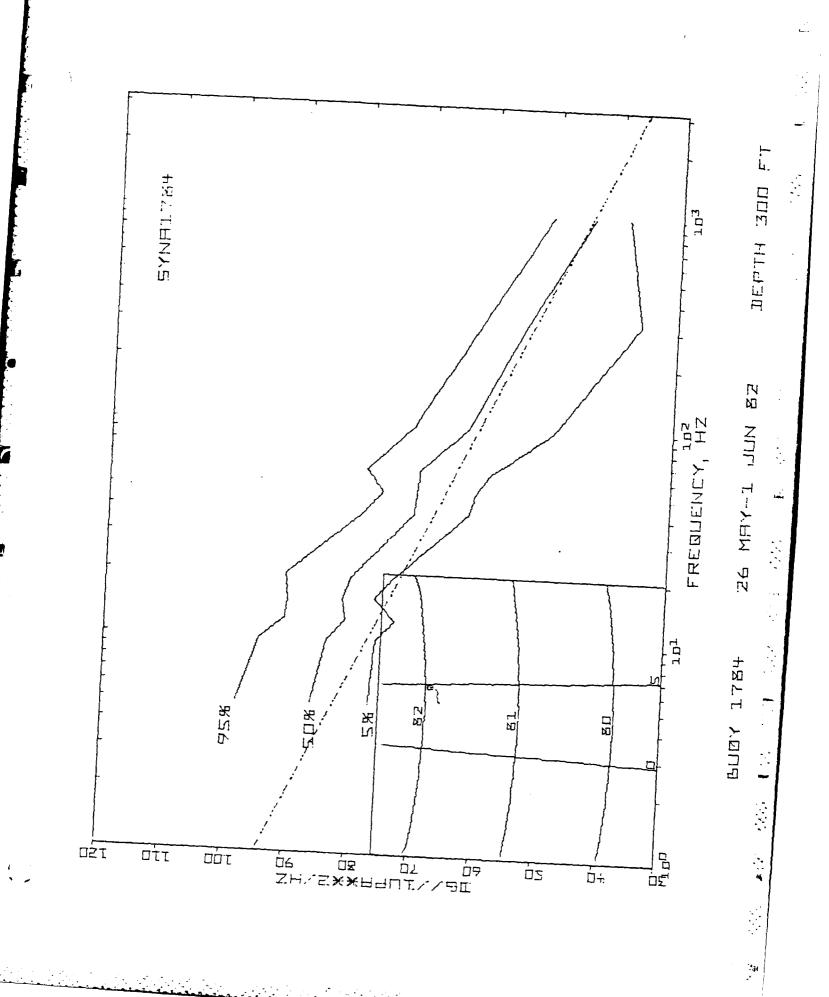
FREQUENC	Υ	ទាក្ស					MEDIAN					
HΖ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	14
5.0	88.3	7.7	75.6	79.1	80.7	83.9	87.7	91.8	97.8	102.6	124.0	100
10.0	73.1	7.0	63.3	69.9	70.3	73.1	76.8	30.9	36.9	94.9	100.0	100
12.5	77.5	5.7	70.5	71.3	72.1	73.4	75.6	80.0	84.8	90.2	99.7	188
15.6	77.9	5.0	70.7	72.6	73.5	74.2	76.7	30.2	83.8	86.9	101.3	163
20.0	79.5	4.5	70.7	72.9	74.7	76.1	78.9	82.1	85.0	85.9	100.2	188
40.0	79.4	3.6	72.1	73.7	75.5	76.9	78.7	81.5	84.2	85.8	90.2	188
50.0	79.2	3.5	70.9	73.4	74.4	76.9	78.9	80.5	83.6	86.5	90.3	188
63.0	78.2	3.7	66.9	72.9	72.9	74.8	78.4	80.9	82.3	83.8	39.2	196
100.0	76.B	4.2	45.3	69 . 0	71.3	73.1	76.6	79.1	81.0	83.3	92.4	188
320.0	63.5	4.3	49.3	56.2	56.9	60.5	43.7	67.4	69.0	70.9	73.5	100
1000.0	51.4	5.4	31 1	40.50	44.0	45.1	51.6	54.8	57.6	40. 1	48.7	108

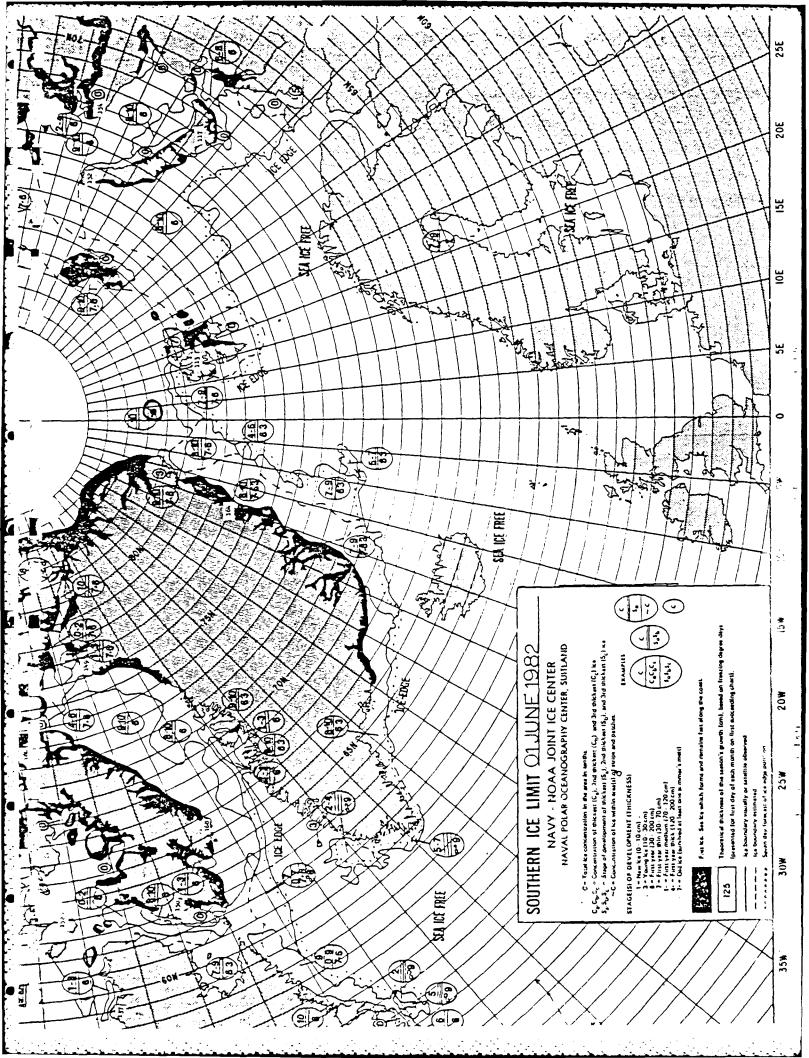












DATES: 2-8 JUN 82 BUOY: 1784

OUTPUT IN FILE SYNA1784

DISPLACEMENT (N. MI.): 25.940 NORTH: -22.620 EAST: -12.697 DIRECTION (TRUE): 209.329

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 30FT

FREQUENC	Υ	STD					MEDIAN	į.				
ΗZ	AVG	DEV	MIN	57	107	25%	50%	75%	90%	95%	MAX	N
5.0	74.5	6.1	60.6	67.2	48.O	69.3	73.3	78.4	82.0	84.5	91.3	56
10.0	64.2	5.6	6.8	58.2	58.8	59.3	62.1	67.3	71.4	75.6	82.3	36
12.5	67.8	3.1	61.1	63.1	66.6	66.6	66.6	67.5	71.6	72.6	81.1	56
15.6	66.5	2.8	59.5	43.4	64.2	65.0	65.7	66.9	70.3	72.9	74.5	56
20.0	65.2	3.1	61.0	62.0	62.0	63.2	64.5	65. 8	68.0	72.4	74.9	56
40.0	63.2	3.8	58.3	58.8	58.8	60.9	62.1	64.0	68.1	70.0	76.1	56
50.0	63.5	4.2	58.3	58.3	59.3	61.0	62.5	45.3	67.1	68.5	81.2	56
63.0	62.0	3.7	55.6	58.1	58.1	60.0	60.8	62.9	66.0	68.3	78.1	56
100.0	58.5	4.5	49.7	51.5	53.4	55.5	57.7	60.9	65.4	65 . 4	70.6	56
320.0	48.0	3.5	35.7	36.8	46.5	47.2	47.9	49.7	51.7	53.2	55.7	56
1000.0	32.4	5.4	25.9	26.1	26.9	29.2	31.6	34.3	35.9	38.4	60.9	ሳራ

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 100FT

FREQUENC	Υ	STD					MEDIAN					
HZ	AVG	DEV	MIN	57.	10%	25%	50%	757	90%	357	MAX	N
5.0	79.7	9.6	60.1	43.8	67.7	73.7	79.1	85.2	94.5	96.6	100.5	1.6
10.0	74.9	5.0	68.9	69.9	69.9	71.1	73.7	75.9	80.9	85.1	90.5	de l
12.5	75.2	3.6	68.6	71.3	72.1	72.8	74.0	75.6	81.6	82.5	83.4	5.6
15.6	75.4	2.5	70.7	71.5	72.6	73.0	74.9	76.7	78.6	80.2	80.9	56
20.0	76.5	2.4	72.9	73.5	73.8	74.7	76.1	77.9	79.8	80.7	83.9	196
40.0	72.0	2.5	66.7	68.6	69.5	70.2	71.5	73.7	74.6	76.2	79.8	* 1 <u>45</u>
50.0	69.4	3.1	65.5	65.5	66.2	67.4	68.4	70.9	74.4	75.3	78.3	1.06
63.0	66.5	3.0	61.7	62.5	63.1	64.4	65.7	67.9	70.4	72.3	74.8	166
100.0	60.4	4.1	53.1	54.1	55.0	57.8	60.5	63.0	65.9	67.1	69.8	1766
320.0	49.7	4.3	37.6	40.5	41.4	50.2	50.2	52.3	53.4	54.4	56.2	56
1000.0	35 9	⊕ ∆	20.4	31.8	31.8	33.O	36.1	77.4	40.5	41.3	48.1	1.6

DATES: 2-8 JUN 82 BUOY: 1784

THE NUMBER OF DATA SAMPLES IS 56

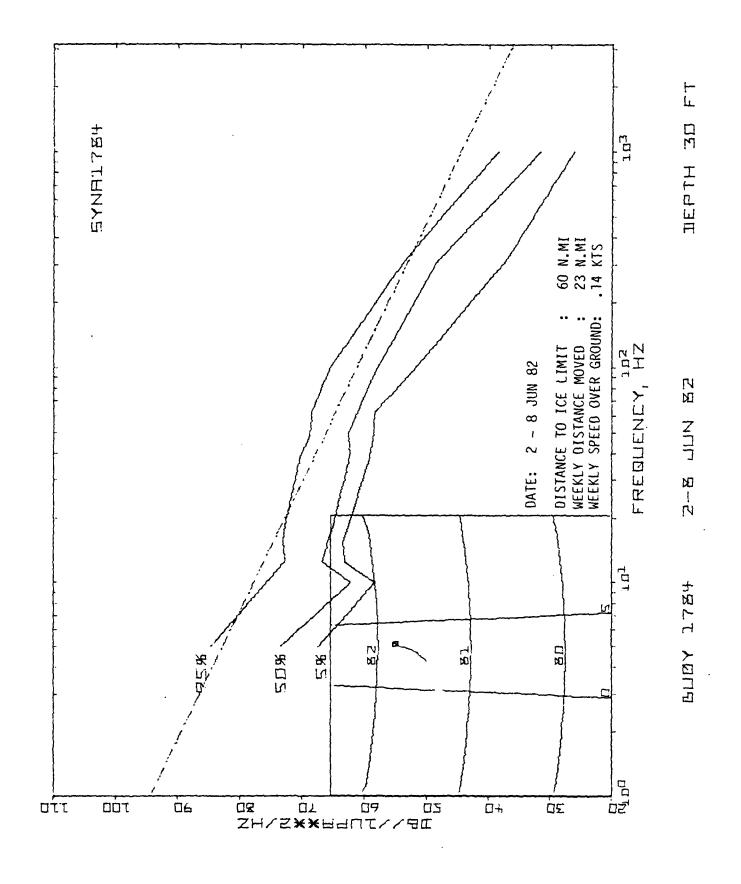
DEPTH = 200FT

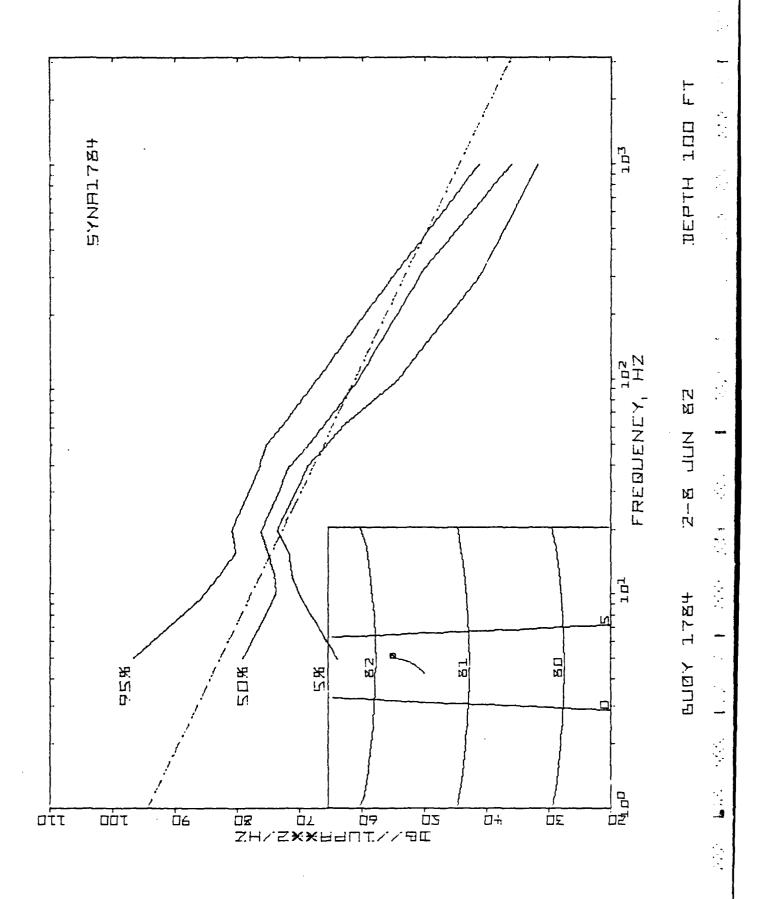
FREQUENC	Y	STD				•	MEDIAN				
ΗZ	AVG	DEV	MIN	57.	10%	25%	50%	75%	90%	95%	MAX
5.0	89.2	10.6	69.6	72.9	75.2	79.4	89.9	95.9	101.9	104.2	113.6
10.0	83.4	8.i	73.7	74.6	75.3	77.8	80.6	86.6	95.9	98.6	105.0
12.5	82.1	6.9	75.6	76.3	76.3	77.5	79.1	84.1	90.2	98.1	101.6
15.6	81.4	5.6	75.5	76.4	76.4	78.0	80.0	82.5	84.0	94.5	101.4
20.0	79.9	4.6	73.9	74.5	75.5	76.4	79.4	80.5	83.3	90.1	96.8
40.0	72.4	3.8	65.7	67.6	69.5	70.1	71.1	74.3	76.1	78.9	86.4
50.0	69.0	4.0	62.9	64.2	65.4	65.4	68.2	70.2	73.3	76.3	83.5
63.0	65.2	4.3	58.2	59.8	60.9	62.4	64.2	67.7	70.2	73.0	80.4
100.0	61.6	4.3	48.9	52.5	57.8	58.3	61.1	64.4	67.9	68.6	69.8
320.0	50.5	3.2	46.8	46.8	47.7	48.5	49.2	50.8	55.0	58.8	59.6
1000.0	43,8	2.8	32.3	40.8	41.5	42.7	44.1	45.0	47.6	48.1	49.2

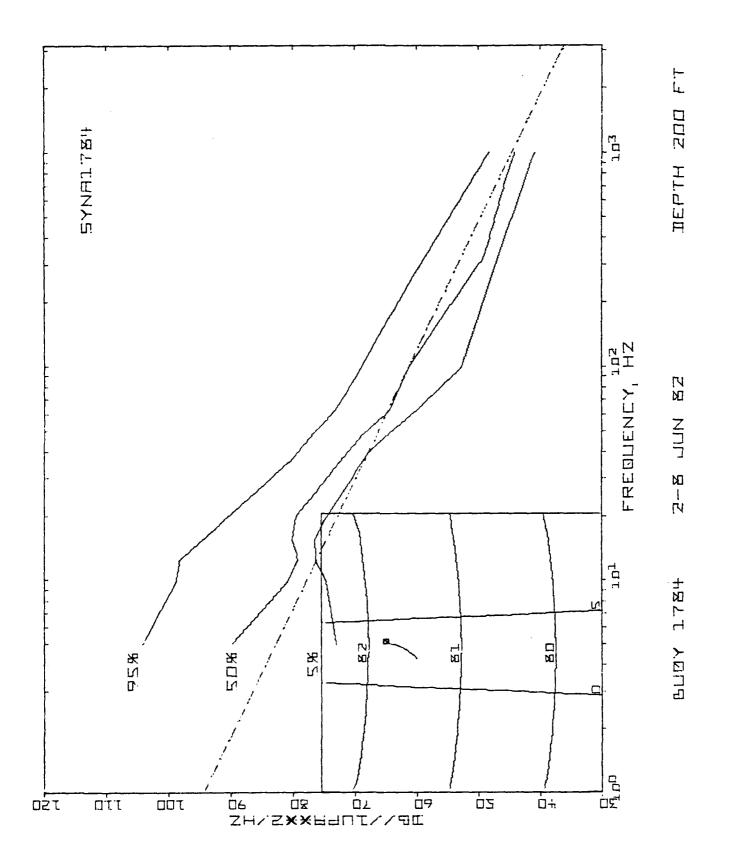
THE NUMBER OF DATA SAMPLES IS 56

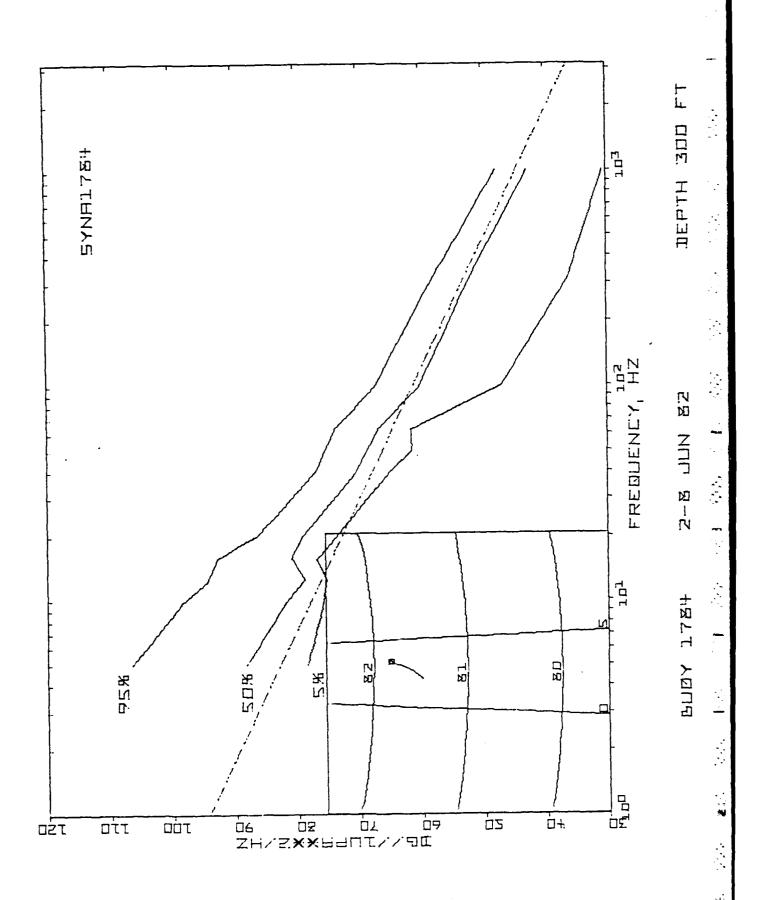
DEPTH = 300FT

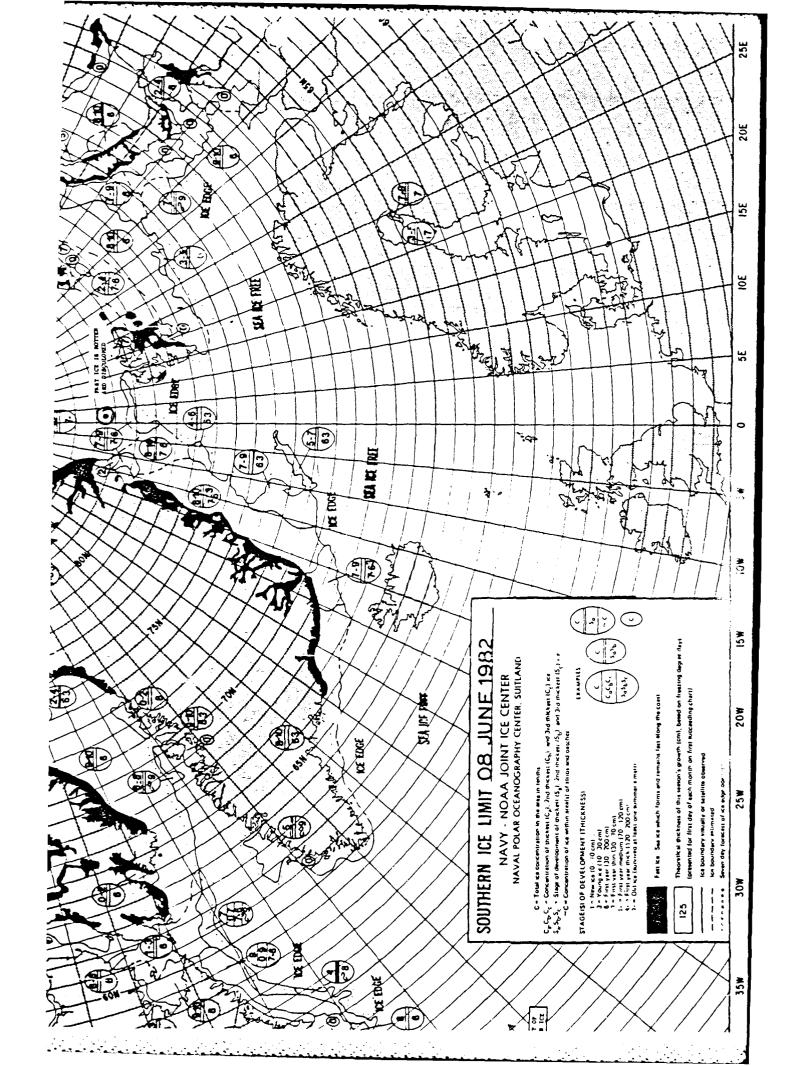
FREQUENC	Y	STD	•				MEDIAN				
HZ.	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	89.1	9.2	76.1	78.4	79.7	81.3	88.2	92.3	101.8	106.5	124.0
10.0	83.2	6.9	72.1	75.6	76.3	78.1	81.6	85.0	87.7	୨୫.1	104.4
12.5	80.3	5.9	72.5	75.2	75.8	77.7	78.7	80.6	83.7	94.0	100.0
15.6	81.3	4.8	72.7	76.8	77.7	78.6	80.7	81.8	82.9	92.7	98.1
20.0	79.6	4.4	69.5	73.6	75.5	76.5	79.0	81.5	83.5	86.4	93.0
40.0	70.6	4.1	61.7	64.8	65.6	67.7	70.2	72.7	76.3	76.8	80.4
50.0	68.1	4.1	59.6	61.3	62.1	64.7	68.4	70.7	72.5	75.3	76.0
63.0	67.3	3.8	58.8	61.6	62.4	64.9	66.8	69.6	72.2	73.8	76.3
100.0	59.7	6.4	43.7	46.9	50.6	56.8	60.0	64.3	67.1	67.1	74.0
320.0	50.0	6.2	31.1	35.9	38.3	49.1	51.8	52.9	54.9	57.8	58.9
1000.0	42.7	3.8	30.4	30.6	39.0	40.9	42.7	44.1	47.1	47.8	48.5
STOP											











9-15 JUN 82 BUOY: 1784

IN FILE SYNA1784

EMENT (N. MI.): 31.176 NORTH: -27.960 EAST: -13.789 ON (TRUE): 206.273

BER OF DATA SAMPLES IS 56

SOFT

NC	Y	STD					MEDIAN	!				
	AVG	DEV	MIN	57	10%	25%	50%	75%	90%	95%	MAX	N
Q	76.1	5.8	65. 3	68.0	69.B	71.5	75.3	79.3	82.5	84.5	94.0	54
O.	64.9	5.4	57.4	58.8	59.3	61.3	63.6	67.3	71.4	72.4	86.2	56
. 5	68.4	4.1	58.6	66.6	66.6	66.6	66.6	69.1	71.0	74.4	86.4	56
.6	66.9	4.0	60.6	63.4	64.2	64.2	65.7	67.5	71.7	72.9	82.3	56
, Q	64.2	3.7	59.8	60.1	61.0	62.0	63.7	65.2	68.0	68.9	77.9	55
. Q	62.7	2.5	57.1	57.7	60.S	60.9	63.1	64.0	64.9	65.6	70.9	56
• 0	63.5	2.6	57.4	59.3	60.2	61.8	43.7	45.3	66.2	67.8	72.2	56
, Q	62.4	3.3	54.3	56.9	59.1	60.0	61.6	64.1	66.0	67.6	71.1	56
, O	59.0	3.6	50.6	53.4	54.8	56.6	58.6	61.5	63.7	64.6	48.7	56
, Q	49.4	2.5	38.5	47.2	47.2	47.9	49.2	50.7	51.7	52.5	55.2	56
" Q	36.4	3.2	28.2	30.8	31.6	34.3	34.8	38.4	39.1	40.3	45.1	56

MBER OF DATA SAMPLES IS 56

= 100FT

ENC	Υ	STD					MEDIAN	ļ				
	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
• 0	88.3	9.3	73.1	73.1	73.7	79.7	90.6	96.9	99.7	99.7	103.8	56
.0	77.6	7.5	67.1	67.7	68.3	70.8	76.8	83.8	86.9	89.2	94.0	56
.5	76.3	4.4	70.5	71.3	72.1	72.8	74.6	78.8	83.4	84.7	88.6	56
.6	75.5	3.4	70.7	70.7	71.7	73.5	74.9	76.7	80.2	82.7	84.7	56
• Q	75.3	2.6	70.7	71.3	72.7	73.5	74.7	76.1	77.9	79.8	83.4	56
• O	71.7	2.2	66.7	67.7	69.0	70.2	71.5	72.7	73.7	75.5	76.9	56
.0	70.2	3.0	64.3	45.5	66.5	67.4	70.2	72.2	73.4	75.3	79.4	56
. 0	67.3	3,5	60.9	61.7	63.6	65.1	66.9	69.7	71.1	73.9	78.4	56
. Q	61.6	4.8	53.1	54.1	55.0	58.5	62.1	43.8	66.5	68.1	79.1	56
.0	50.5	4.3	36.9	40.5	43.0	50.2	51.6	53.4	53.4	54.4	58.3	56
.0	37.8	4.3	22.2	30.7	33.0	36.8	38.0	39.6	42.1	43.4	46.5	55

-15 JUN 82 BUOY: 1784

ER OF DATA SAMPLES IS 56

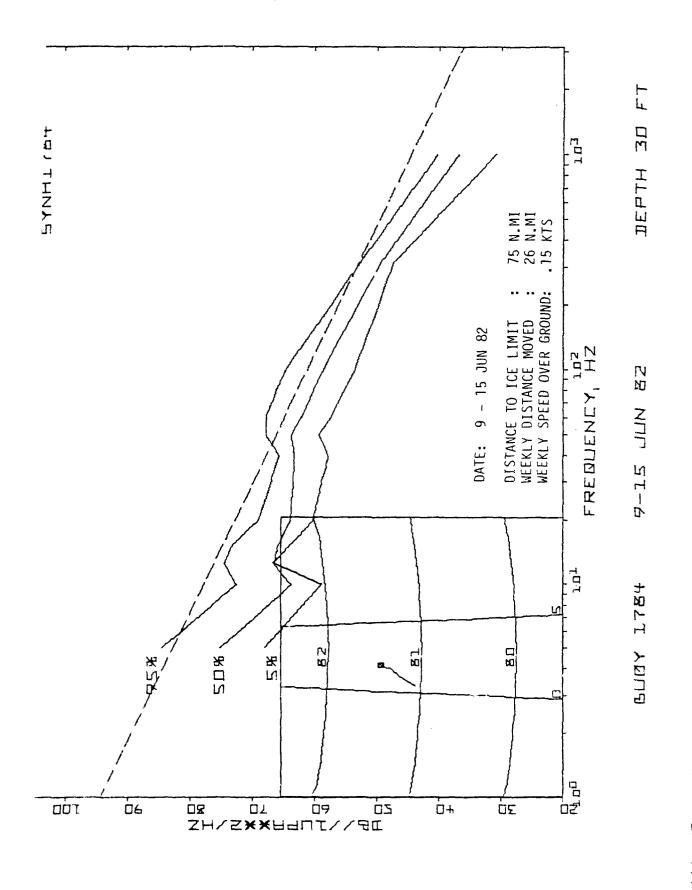
200FT

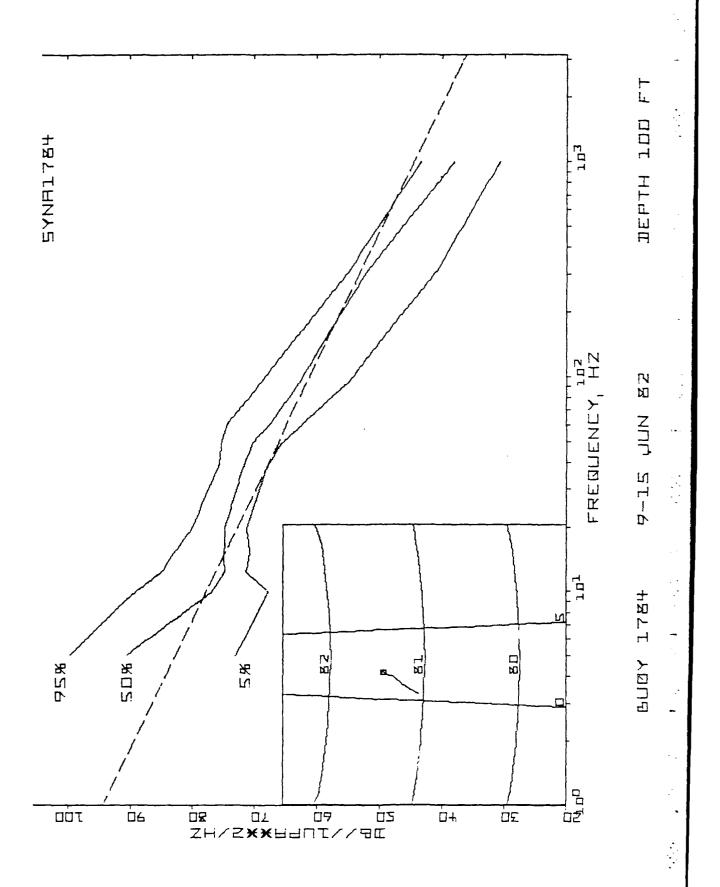
	Υ	STD					MEDIAN	4				
	AVG	DEV	MIN	5%	10%	25%	50%	75%	907	957	MAX	N
	99.7	12.2	78.7	81.9	83.9	89.0	100.0	104.2	113.6	124.0	124.0	55
	90.8	10.4	73.7	76.0	77.2	79.7	89.3	101.9	102.9	104.0	105.0	56
	87.9	9.8	74.0	74.9	76.3	79.1	85.0	97.2	100.4	101.0	103.2	54
	86.7	8.6	74.5	75.5	76.4	78.7	85.4	24.5	98.6	99.6	100.5	56
	83.3	7.6	73.3	74.5	75.3	76.4	80.5	90.1	94.5	96.1	98.0	56
	74.9	5.1	65 . 7	68. 3	69.2	72.0	73.6	77.2	82.2	84.1	88.2	56
	72.4	5.4	62.9	64.2	64.8	68.9	71.4	74.9	79.4	80.2	87.0	56
	68.5	5.3	60.1	60.4	61.1	64.2	67.7	72.1	75.1	76.2	82.3	56
i.	62.1	4.3	48.1	50.3	58.3	60.3	62.6	44.4	66.3	67.1	48.4	56
1	51.1	2.5	45.7	48.5	48.5	49.2	50.8	51.8	54.3	55.7	57.9	52
F	43.0	5.0	30.7	32.3	34,4	40.8	44.1	46.4	47.6	48.2	54.2	51

(ER OF DATA SAMPLES IS 56

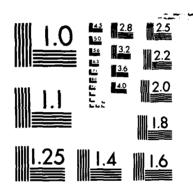
SOOFT

40	ΣY	STD					MEDIAN	1				•
	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
)	103.6	13.2	77.7	81.3	85.7	93.1	104.3	111.8	124.0	124.0	124.0	
)	96.4	11.1	74.9	79.1	80.9	85.7	101.6	105.3	107.3	107.3	112.4	574
5	91.9	10.0	74.5	76.5	77.1	81.8	95.8	101.2	101.8	102.8	103.9	50
5	91.9	9.9	73.9	77.7	79.3	81.8	91.4	101.8	102.8	102.8	103.7	5.67
Ď	88.4	2.7	73.6	74.9	75.5	79.Q	86.4	98.4	99.0	99.6	99.6	E 1
)	78.8	9.0	64.8	65.6	63.9	70.8	75.7	88.9	89.9	89.9	91.6	$\frac{\omega}{2}(\zeta)$
Э	77.0	9.0	62.1	64.6	66.5	69.3	72.5	84.5	88.1	88.8	90.6	5/
)	75.3	8.2	60.8	64.3	64.9	68.7	72.8	83.0	84.9	85.9	87.6	5
)	67.0	8.2	48.0	53.5	56.3	61.1	66.1	75.6	78.1	80.0	80.9	50
)	52.8	4.8	31.1	45.8	49.1	51.8	52.9	54.9	58.4	58.4	61.7	50
)	41.5	5.1	30.4	30.4	30.4	36.5	42.7	45.2	46.2	47.1	50.7	2.

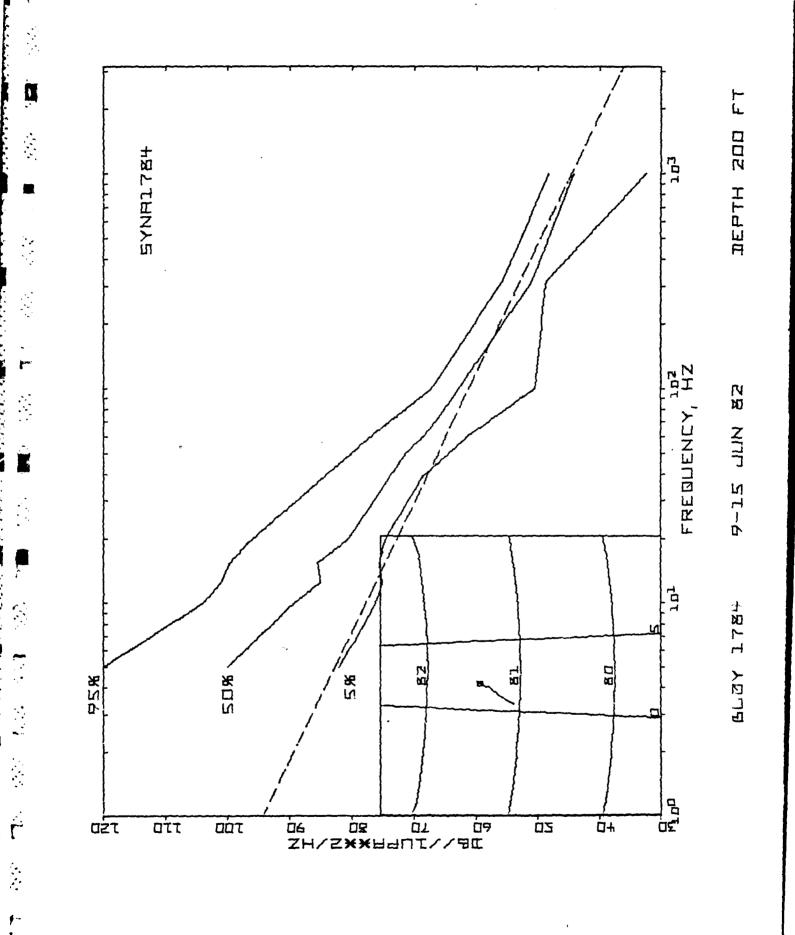


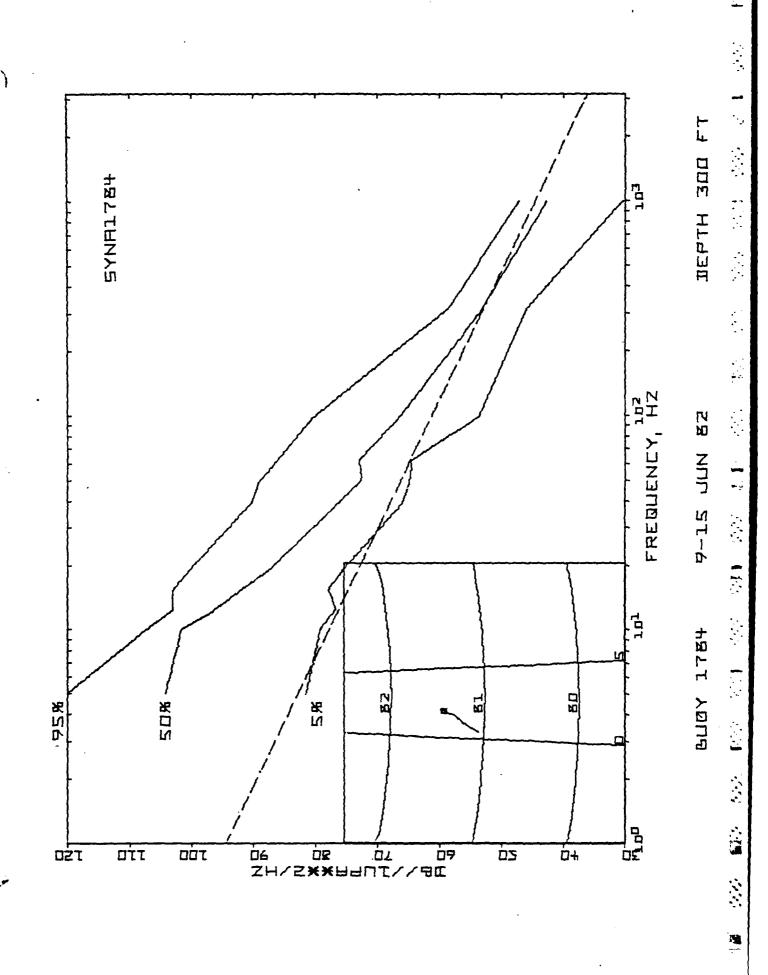


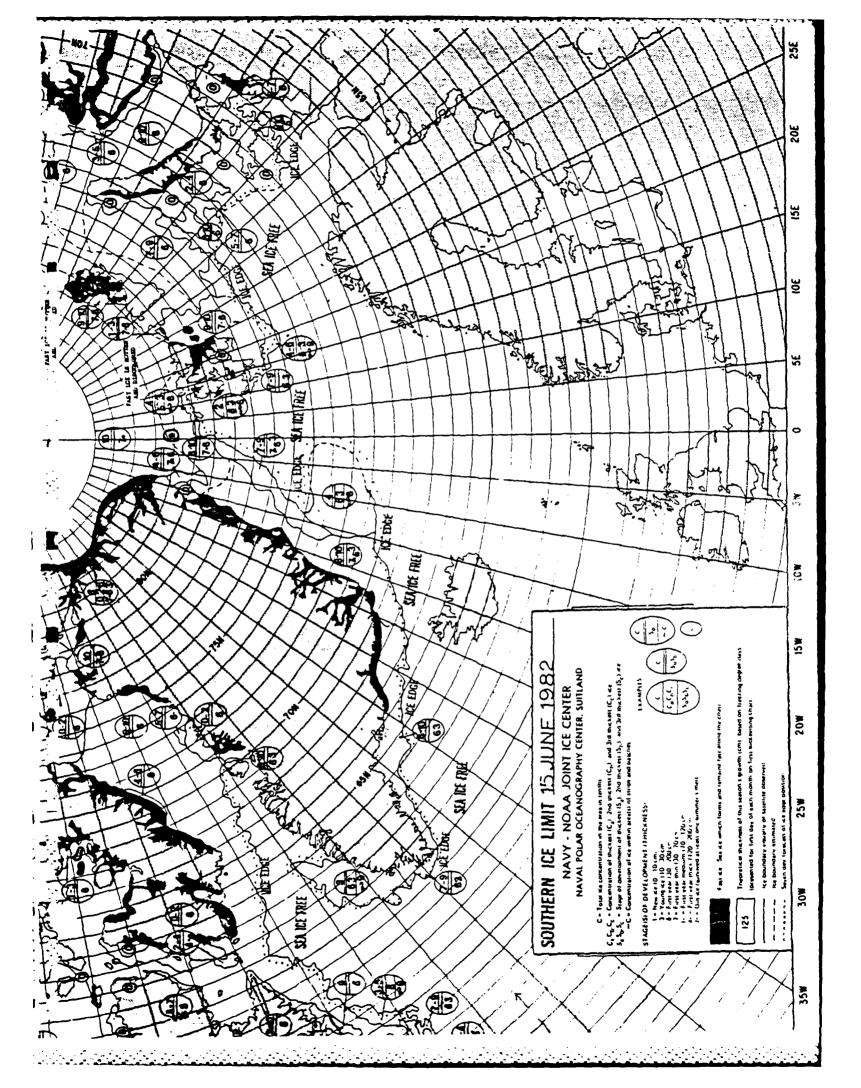
LONG TERM STATISTICAL MEASUREMENTS OF ENVIRONMENTAL ACOUSTICS PARAMETERS I. (U) POLAR RESEARCH LAB INC CARPINTERIA CA B M BUCK ET AL. 13 DEC 84 PRL-TR-53 N00014-84-C-0394 F/G 20/1 AD-A156 818 4/7 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART NATIONAL BURFALL OF STANDARDS-1963-A







GRATES: 16-22 JUN 82 BUOY: 1784

OUTPUT IN FILE SYNA1784

DISPLACEMENT (N. MI.): 49.723 NORTH: -49.200 EAST: -7.196 DIRECTION (TRUE): 188.340

THE NUMBER OF DATA SAMPLES IS 56

#.DEPTH = 30FT

FREQUENC	Y	STD					MEDIAN]				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
5.0	81.0	5.8	70.5	71.5	74.0	76.5	80.0	84.5	88.6	91.3	93.4	56
10.0	72.4	6.3	62.1	62.9	64.2	65.4	73.3	76.8	79.3	82.3	84.5	56
12.5	72.6	4.8	66.6	66.6	67.5	68.3	71.6	75.8	77.6	81.8	85.6	56
15.6	72.0	4.8	65.0	65.7	66.3	67.5	71.0	76.3	77.7	79.5	85.0	56
20.0	68.9	5.1	61.0	62.0	62.9	65.2	68.0	71.8	75.8	77.2	85.1	56
40.0	66.4	3.8	60.3	60.9	62.1	64.0	65.6	67.5	69.1	72.3	79.6	56
50.0	66.8	2.9	62.5	63.1	63.7	64.3	66.2	68.5	70.3	71.3	76.3	56
63.0	66.8	2.7	62.3	63.5	64.1	65.1	66.9	67.6	68.9	72.0	76.1	56
100.0	63.3	2.9	58.6	58.6	59.4	61.5	62.7	63.7	66.2	69.7	72.2	56
320.0	52.6	2.4	49.2	49.7	49.7	50.7	52.5	53.9	55.7	56.8	60.0	56
1000.0	40.8	3.2	34.9	34.9	36.8	38.4	40.9	42.8	44.4	45.1	47.9	56

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 100FT

r.

FREQUENC	Υ	STD					MEDIAN	l				
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	20%	95%	MAX	N
5.0	83.9	8.6	48.7	72.5	73.7	76.5	81.6	90.6	95.3	98.8	103.8	56
10.0	74.6	6.2	66.4	67.1	68.3	69.9	73.1	79.1	81.9	85.1	94.0	56
12.5	74.6	3.9	69.6	70.5	70.5	72.1	74.0	75.6	80.0	80.6	90.2	56
15.6	74.7	3.0	70.1	70.7	70.7	72.6	74.2	75.5	78.6	79.5	86.3	56
20.0	75.7	2.9	70.7	71.9	71.9	72.9	75.4	77.9	79.8	80.7	82.1	56
40.0	73.3	1.9	69.5	70.2	71.5	72.1	72.7	74.6	75.5	76.9	78.2	56
50.0	72.4	2.4	69.3	69.3	70.2	70.9	71.6	73.4	76.2	76.9	79.4	56
63.0	71.2	2.5	66.3	66.9	67.9	68.8	71.1	72.9	73.9	74.8	77.1	56
100.0	65.5	2.4	61.0	62.1	63.0	63.8	65.3	67.1	68.1	70.6	71.3	56
320.0	55.4	3.1	50.9	51.6	52.3	53.4	54.4	56.9	58.9	62.2	64.9	56
1000.0	43.4	4.0	36.1	37.4	38.0	40.5	43.4	46.5	48.1	48.8	52.5	5.6

DATES: 16-22 JUN 82 BUOY: 1784

THE NUMBER OF DATA SAMPLES IS 56

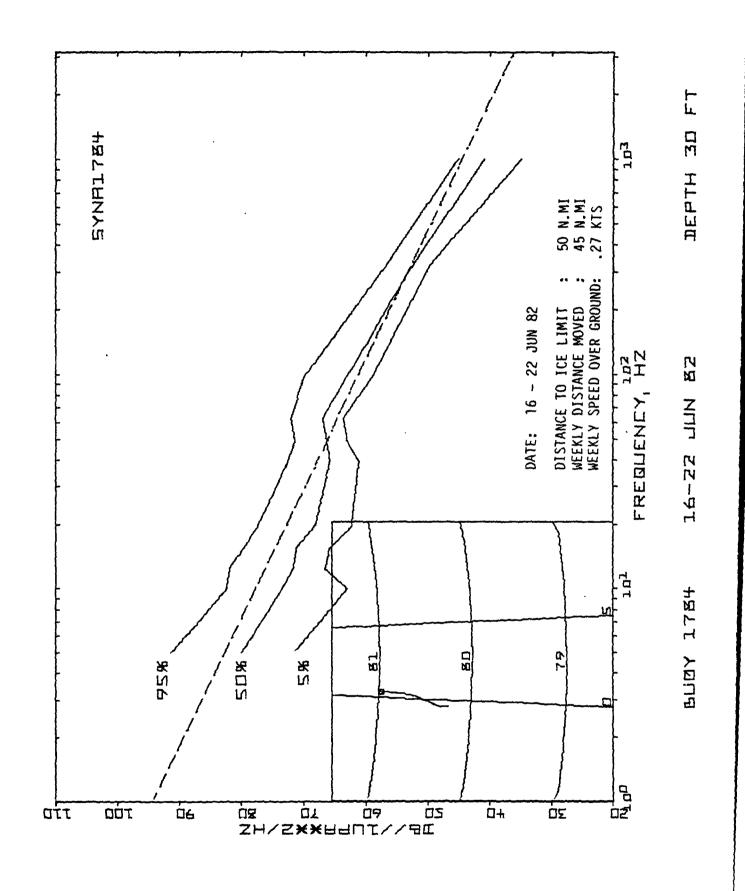
DEPTH = 200FT

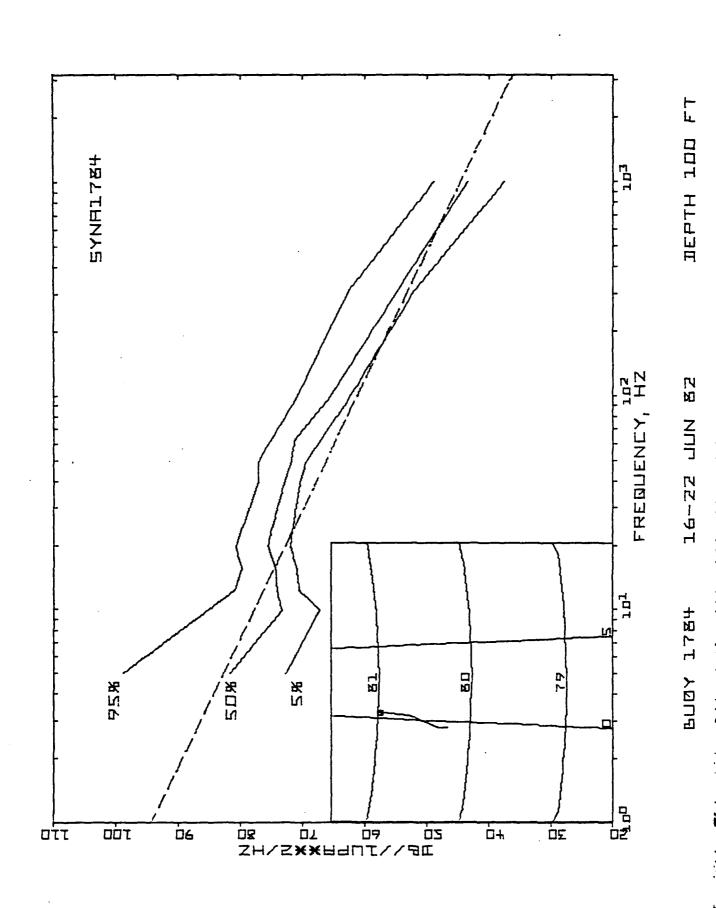
FREQUENC'	Y	STD					MEDIAN	N .			
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	93.9	11.1	78.7	79.4	80.1	84.7	90.7	101.0	110.3	110.3	124.0
10.0	86.9	8.8	72.8	74.6	76.0	80.6	84.9	94.1	100.1	101.3	106.7
12.5	85.1	7.6	74.9	75.6	76.3	8.1	83.0	90.2	96.2	98.1	104.4
15.6	83.8	6.5	75.5	76.4	77.3	78.7	81.6	86.6	94.5	96.1	102.0
20.0	82.6	5.0	74.5	74.5	76.4	79.4	81.6	84.1	89.3	90.1	98.6
40.0	75.3	3.0	69.5	72.0	72.9	73.6	75.0	76.1	78.9	79.7	89.2
50.0	72.6	3.0	68.2	69.6	70.2	70.8	71.4	73.3	74.9	76.3	88.3
63.0	69.0	3.4	62.4	64.2	64.2	67.0	69.0	70.2	72.1	73.0	83.3
100.0	66.6	2.8	61.1	62.6	63.2	64.4	66.3	68.6	70.4	71.4	73.9
320.0	55.5	2.8	50.8	51.8	51.8	53.6	55.0	56.8	59.6	61.1	62.9
1000.0	49.7	3.0	42.7	45.7	46.4	47.6	49.2	51.0	53.1	53.7	59.1

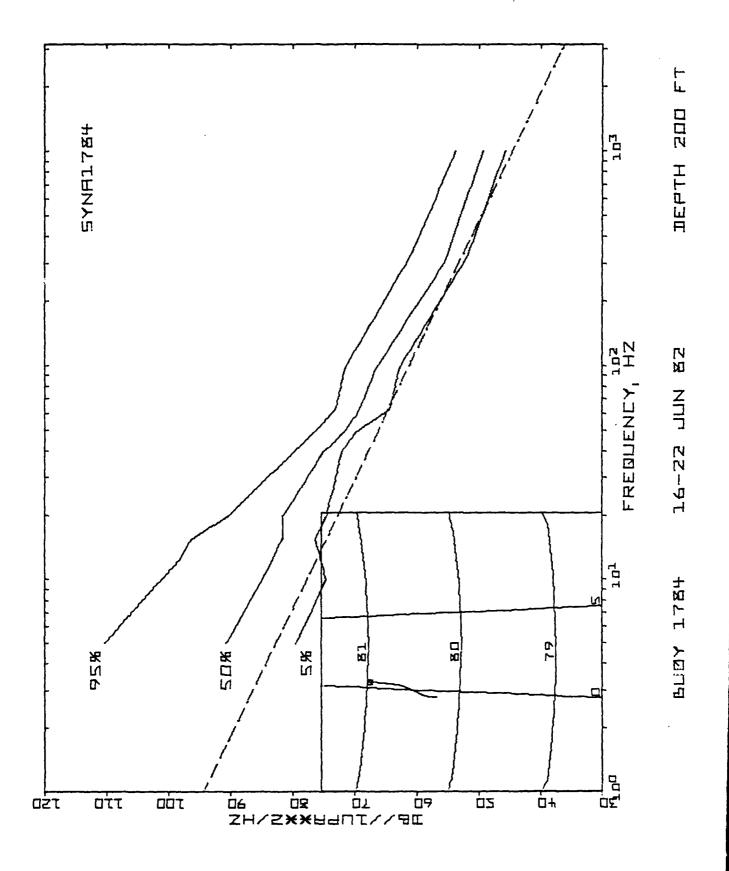
THE NUMBER OF DATA SAMPLES IS 56

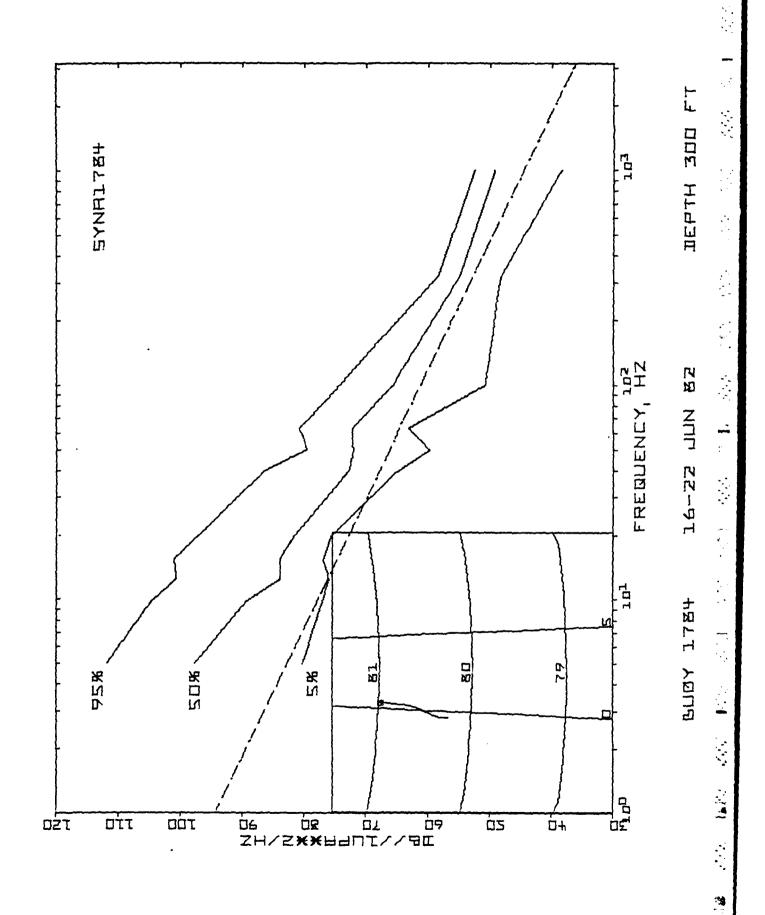
DEPTH = 300FT

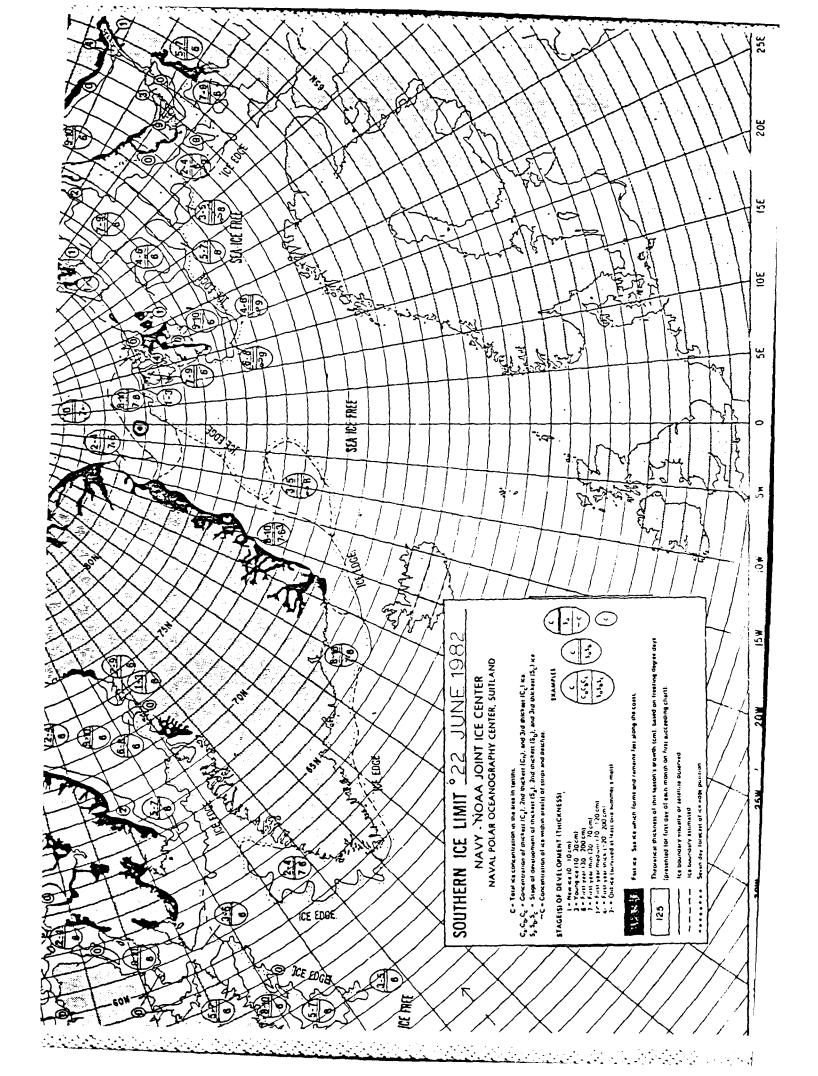
FREQUENC	Υ	STD					MEDIAN	1			
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	97.2	11.1	77.7	80.2	81.3	87.3	97.7	106.5	109.6	111.8	124.0
10.0	90.5	9.4	74.9	76.9	79.1	82.3	89.0	99.7	103.2	104.4	107.3
12.5	86.8	8.7	70.8	75.9	76.5	79.6	83.7	94.6	100.0	100.6	102.8
15.6	86.5	8.3	75.8	76.8	77.7	79.9	83.8	93.9	99.3	100.9	104.4
20.0	83.2	7.0	69.5	75.5	76.5	78.3	81.5	88.6	93.6	97.1	99.6
40.0	73.5	5.9	62.3	64.8	67.7	70.2	72.7	75.0	78.8	86.4	92.4
50.0	72.4	5.7	58.5	59.6	67.3	70.7	71.9	74.4	76.0	79.6	90.6
63.0	72.4	5.4	58.8	63.0	64.9	70.3	72.2	74.7	77.7	80.8	88.4
100.0	64.9	6.1	48.0	50.6	57.5	62.8	65.5	68.0	69.6	74.0	81.6
320.0	54.7	3.9	43.1	48.2	51.1	52.9	54.9	57.1	58.4	58.4	67.7
1000.0	48.3	4.0	36.5	38.4	40.9	47.1	49.2	50.7	51.6	52.5	53.9
STOP											











S: 23-29 JUN 82 BUOY: 1784

UT IN FILE SYNA1784

LACEMENT (N. MI.): 33.809 NORTH: -33.660 EAST: 3.172 CTION (TRUE): 174.633

NUMBER OF DATA SAMPLES IS 56

H = 30FT

:QUENC	V	STD					MEDIAN					
	AVG	DEV	MIN	5%	10%	25%	50%	757	90%	95%	MAX	N
ΗŽ		7.1	69.3	71.5	73.3	77.5	80.7	84.5	89.6	94.6	101.6	. 6
5.0	81.7					65.4	70.2	74.9	80.9	36.2	93.7	56
10.0	71.5	7.5	61.3	62.1	62.9			74.4	78.6	81.1	93.2	56
12.5	72.1	5.3	66.6	66.6	67.5	68.S	70.4					56
15.6	71.1	4.8	64.2	45. 7	66.3	67.5	70.3	73.5	77.0	79.5		
20.0	67.1	5.6	60.4	61.0	61.0	62.9	<i>6</i> 5.8	70.5	74.Q	75.8	89.3	56
		3.4	62.1	62.1	62.1	63.1	65.6	67.5	70.0	70.9	82.1	56
40.0	66.2			64.3	64.3	66.2	67.1	69.1	70.3	73.1	79.9	56
50.0	67.9	2.9	63.1					69.5	71.1	72.9	78.1	56
63.0	68.O	3.0	61.6	62.9	64.1	66.0	67.6		,		71.5	56
100.0	64.8	2.5	59.4	60.9	61.5	62.7	64.6	66.2	48.1	68.7		
320.0	53.2	2.1	49.7	49.7	50.7	51.7	53.2	54.6	55.7	56.8	57.7	56
000.0	41.1	3.3	34.3	35.9	37.6	39.1	40.9	41.9	45.7	47.9	48.8	5 G
000.0	T - T											

NUMBER OF DATA SAMPLES IS 56

TH = 100FT

EQUENC:	Y	STD					MEDIAN					
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
5.0	81.0	5.7	71.9	71.9	73.7	77.2	79.7	83.9	89.3	91.8	95.3	1.6
10.0	71.7	4.7	64.8	65.6	67.1	68.3	69.9	74.9	79.7	80.9	83.7	5.6
12.5	73.1	2.7	69.6	70.5	70.5	71.3	72.1	74.6	77.4	78.1	80.6	U6
15.6	73.4	2.0	70.7	70.7	70.7	71.7	73.5	74.9	75.5	76.7	79.5	56
20.0	74.1	1.9	70.7	71.3	71.9	71.9	73.8	75.4	76.7	76.7	78.9	56
40.0	74.7	2.9	70.2	70.9	70.9	72.7	74.6	76.2	76.2	73.2	89.0	56
50.0	74.5	2.4	69.3	70.9	71.6	72.2	74.4	76.2	76.9	77.6	80.5	56.
63.0	73.0	2.6	66.3	67.9	68.8	71.7	72.9	74.8	75.7	76.4	78.9	56
100.0	A8.3	2.8	61.0	63.0	45.9	66.5	68.1	69.8	71.9	72.5	73.1	56
320.0	55.9	2.6	51.6	52.3	53.4	53.4	55.4	56.9	60 . 5	60.5	61.4	56
000.0	43.7	3.9	36.8	37.4	38.6	40.5	43.4	45.6	49.4	50.0	53.4	1.6

S: 23-29 JUN 82 BUOY: 1784

NUMBER OF DATA SAMPLES IS 56

H = 200FT

QUENC	Y	STD					MEDIAN				
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	92.1	8.5	76.4	80.8	81.9	85.5	89.9	96.7	101.9	104.9	119.0
10.0	83.2	8.6	70.6	72.8	74.6	77.2	80.6	88.7	93.4	100.7	108.2
12.5	81.2	٤.4	72.1	74.0	74.0	76.3	80.0	84.1	89.0	93.7	98.9
15.6	80.9	6.3	73.3	73.3	74.5	76.4	80.5	82.5	86.6	92.6	101.4
20.0	78.7	4.7	72.0	73.9	74.5	76.4	78.0	79.4	82.5	86.6	96.1
40.0	76.5	2.5	71.1	72.9	72.9	74.3	76.1	78.1	79.7	79.7	84.1
50.0	75.0	3.1	69.6	70.2	71.4	72.4	74.9	77.4	78.5	78.5	87.0
63.O	70.6	2.7	63.6	65. 2	67.7	69.6	70.2	72.1	73.7	73.7	79.0
100.0	69.3	3.6	60.3	62.6	65.4	66.3	69.8	71.4	73.2	73.9	78.3
320.0	56.9	3.6	49.2	51.8	53.6	55.0	56,8	57.9	61.1	63.5	68.3
000.0	49.4	5.6	28.5	36.0	46.4	48.2	50.1	52.4	54.2	56.2	59.1

NUMBER OF DATA SAMPLES IS 56

TH = 300FT

EQUENC	Υ	STD					MEDIAN					
HZ ·	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	
5.0	91.4	11.6	76.1	76.1	79.1	82.2	89.8	97.1	103.2	111.8	124.0	
10.0	84.1	10.0	71.5	73.1	74.9	76.3	80.9	87.1	103.2	105.3	106.1	
12.5	82.4	8.4	71.7	72.7	73.6	75.9	80.5	83.7	98.5	100.0	102.8	
15.6	82.7	7.5	74.9	75.8	76.8	77.7	80.0	83.4	98.7	99.9	102.8	
20.0	81.0	6.5	69.5	74.3	75.5	77.4	79.0	81.0	92.4	96.3	99.6	
40.0	75.6	5.4	63.9	66.4	67.7	72.7	75.7	76.8	81.7	84.8	90.8	
50.0	74.6	5.7	60.5	63.4	65.6	71.9	75.3	76.7	79.6	81.3	90.0	
63.0	74.2	5.9	58.3	60.8	65.9	72.8	75.6	77.7	78.8	79.9	87.6	
100.0	67.8	6.3	49.8	51.3	57.5	66.1	69.6	71.5	73.1	74.9	78.1	
320.0	56.9	5.0	41.2	45.8	51.1	54.9	57.1	58.9	61.7	63.8	67 . 7	
000.0	50.5	5.0	30.4	36.5	46.2	49.2	50.7	52.5	55.7	57.7	59.9	
D												

S: 7-13 JUL 82 BUOY: 1784

NUMBER OF DATA SAMPLES IS 56

H = 200FT

QUEN	:Y	STD					MEDIAN	4			
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	100.4	11.0	84.7	85.5	88.0	90.7	99.4	105.5	119.0	124.0	124.0
10.0	89.6	8.8	73.7	77.2	77.8	83.3	88.0	95.3	102.9	104.0	105.8
12.5	87.1	7.9	74.9	76.3	79.1	80.9	84.1	91.2	100.4	102.2	105.3
15.6	86.6	7.1	75.5	76.4	78.0	81.6	86.0	89.3	99.6	100.5	102.0
20.0	84.9	6.0	73.3	77.3	79.4	80.5	83.3	87.6	94.5	97.4	98.6
40.0	80.6	3.8	71.1	75.6	76.1	78.1	80.3	83.2	85.7	87.6	89.2
50.0	80.0	3.7	74.2	74.9	75.6	77.4	78.5	81.6	86.2	87.0	88.3
63.0	77.0	3.4	67.0	70.2	73.7	75.1	76.2	78.2	80.4	83.3	85.0
.00.0	74.0	3.0	64.4	69.2	69.2	72.3	74.6	75.8	76.4	78.3	81.9
320.0	62.7	4.9	51.8	52.8	55.0	60.4	62.9	66.4	68.9	69.9	72.4
000.0	54.3	6.5	36.0	39.3	46.4	51.7	54.2	57.7	61.3	62.2	72.3

NUMBER OF DATA SAMPLES IS 56

TH = 300FT

EQUENC	:Y	STD					MEDIAN	1				-
HZ .	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	
5.0	97.7	12.6	74.7	81.3	82.2	87.3	96.5	104.3	120.1	124.0	124.0	
10.0	89.5	11.0	74.9	75.6	76.3	78.1	87.7	97.2	104.4	107.3	116.9	
12.5	84.9	9.1	71.7	74.5	75.2	74.5	83.7	89.2	100.0	101.8	103.9	
15.6	86.3	ଟ.ଟ	74.6	75.8	77.7	80.0	81.8	89.8	100.9	102.8	103.7	
20.0	84.4	7.5	75.5	76.5	77.4	79.0	81.5	87.0	97.8	99.6	100.6	27
40.0	78.9	6.8	62.9	65.6	69.9	75.7	77.9	81.7	88.9	90.8	90.8	
50.0	76.9	6.8	54.3	62.7	69. 3	74.4	77.4	79.6	86.5	88.8	90.6	
63.0	76.4	6.8	54.1	58.8	69.1	73.S	77.0	79.9	84.9	85.9	87.6	i.
100.0	70.6	7.9	48.0	49.0	60.0	67.1	73.1	75.6	78.1	78.1	81.6	
320.0	61.2	5.7	45.8	51.1	52.4	58.9	61.7	65.0	66.9	67.7	72.9	٠.
000.0	51.9	6.5	30.4	33.4	42.7	49.2	53.9	55.7	58.5	59.2	60.6	4
D												_

3: 7-13 JUL 82 BUOY: 1784

JT IN FILE SYNA1784

LACEMENT (N. MI.): 81.083 NORTH: -64.560 EAST: -49.055 CTION (TRUE): 217,253

NUMBER OF DATA SAMPLES IS 56

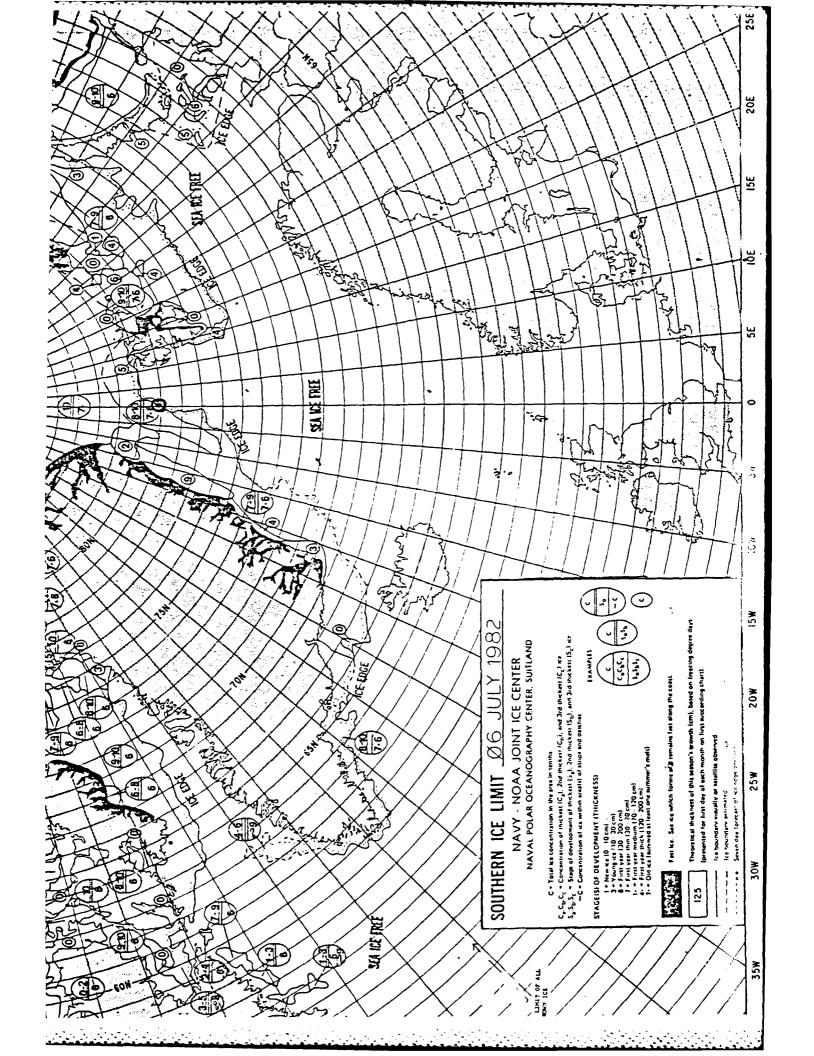
H = 30FT

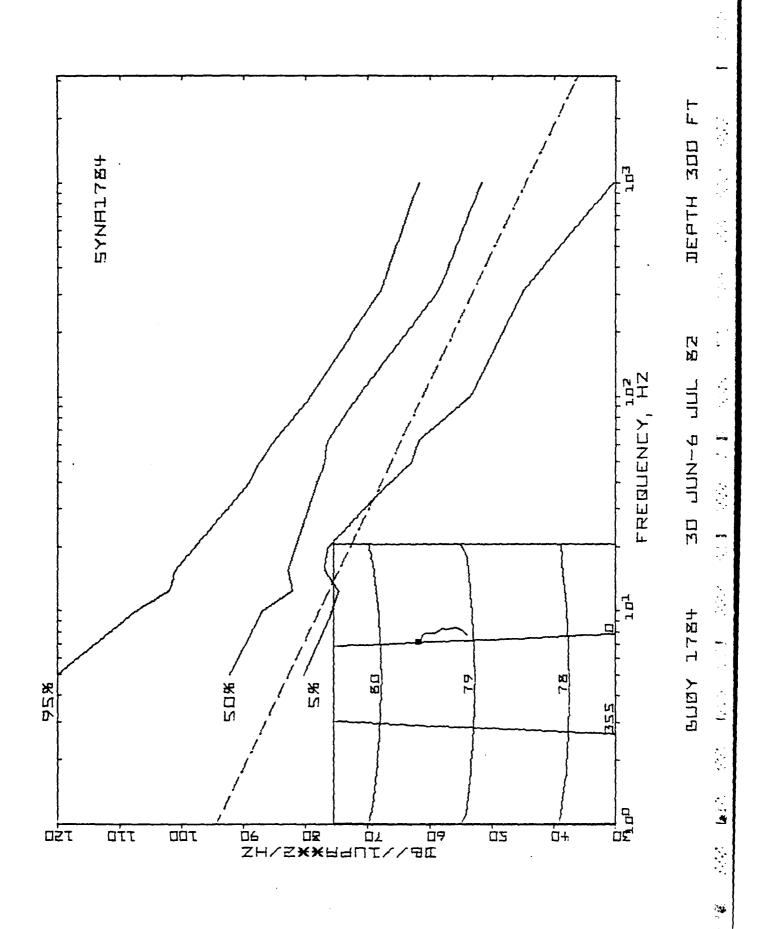
QUENCY		STD					MEDIAN	l				
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	20%	95%	MAX	N
5.0	84.9	5.5	74.7	74.7	78.4	81.4	84.5	88.6	91.3	92.8	99.4	56
10.0	74.4	7.2	63.6	63.6	64.8	68.1	73.3	79.3	84.5	87.0	89.5	56
12.5	74.7	6.4	66.6	67.5	68. 3	69.1	72.6	78.6	84.7	86.4	91.6	56
15.6	72.7	5.5	66.3	66.3	67.5	68.5	71.0	75.4	80.6	83.7	86.6	56
20.0	71.5	5.8	62.9	64.5	65. 8	67.0	69.8	74.9	79.0	82.6	89.3	56
40.0	72.3	3.9	66.3	66.9	67.5	70.0	71.6	74.1	76.9	79.0	83.7	56
50.0	74.1	3.3	69.1	69.7	70.3	71.3	73.8	75.8	79.1	79.9	82.4	56
63.0	74.2	3.0	69.5	70.1	71.1	72.0	72.9	76.1	78.1	78.9	82.2	56
100.0	73.3	3.3	68 .1	68.7	69.7	70.6	73.5	74.7	75.7	78.2	84.9	516
320.0	62.7	3.6	55.2	56.8	57.7	60.6	62.8	64.5	66.6	66.6	73.8	56
0.000	49.8	3.8	40.9	42.8	44.4	47.9	49.7	51.8	53.9	57.1	57.8	5.6

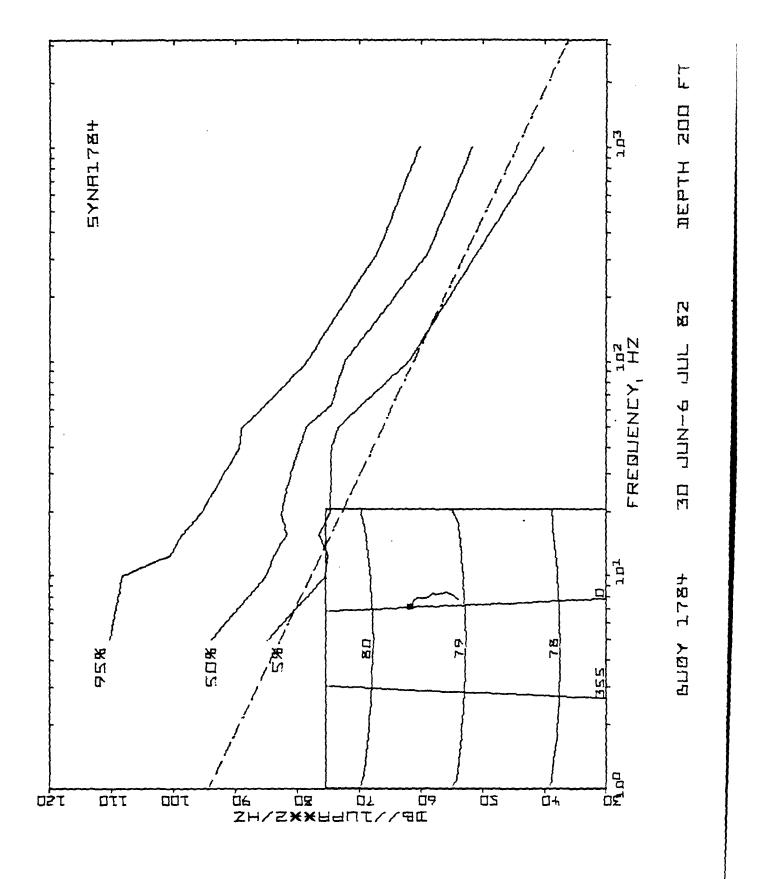
NUMBER OF DATA SAMPLES IS 56

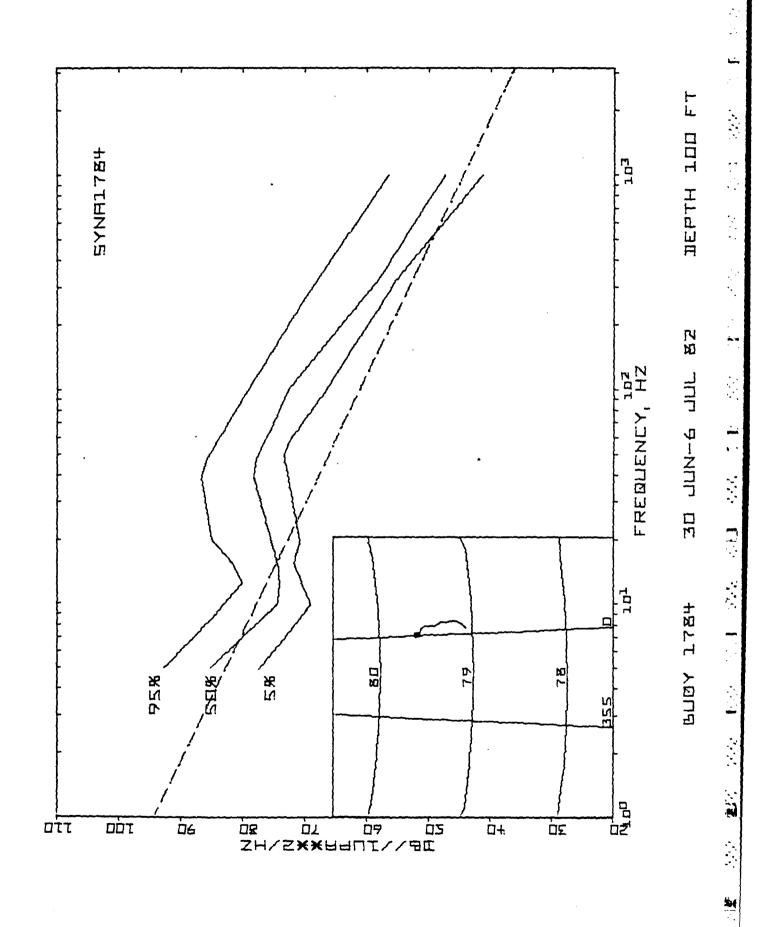
TH = 100FT

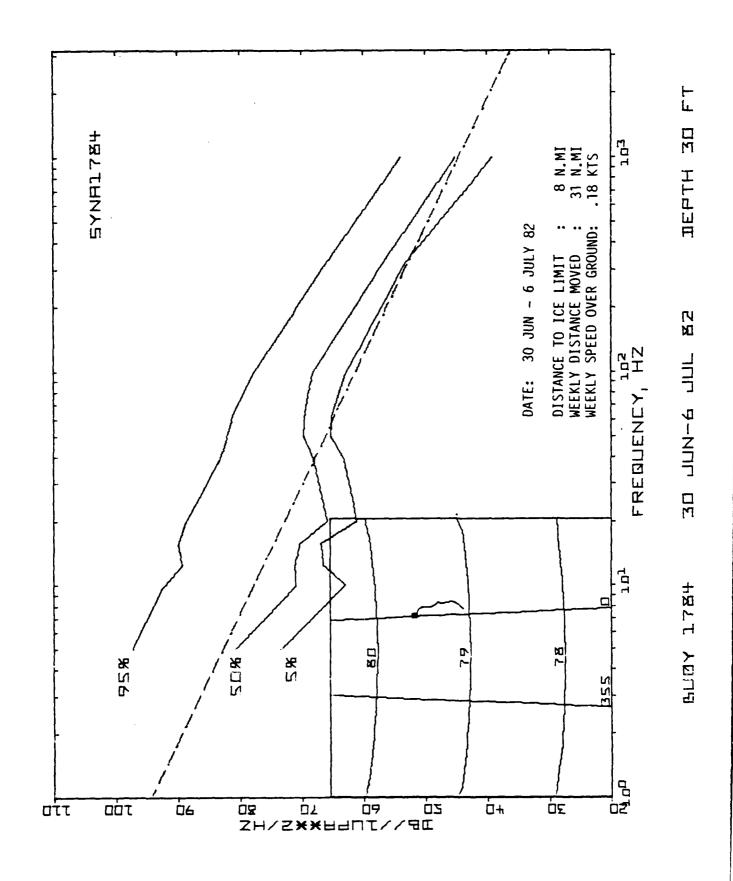
EQUENCY STI							MEDIAN					
ΗZ	AVG	DEV	MIN	5%	10%	257	50%	75%	90%	95%	MAX	N
5.0	88.2	7.0	75.6	77.9	80.7	83.2	86.8	91.8	95.3	97.8	112.1	1.66
10.0	77.2	6.0	69.9	70.8	71.6	72.4	75.9	79.1	84.4	86.9	100.0	1.14
12.5	76.9	4.3	72.1	72.1	72.8	73.4	75.6	78.8	80.0	81.6	92.1	10/6
15.6	77.9	3.5	72.6	73.5	74.2	75.5	77.7	79.5	80.9	84.7	90.7	561
20.0	79.7	3.1	74.7	75.4	75.4	77.3	79.8	81.4	83.9	85.0	85.9	56
40.Q	79.6	2.7	75.5	76.2	76.2	78.2	73.7	80.7	82.3	84.2	89.6	56
50.0	79.2	2.7	73.4	74.4	76.2	76.9	79.4	80.5	82.2	83.6	87.4	56
63.0	78.7	3.0	72.9	73.9	74.8	76.4	78.4	80.9	81.7	83.8	89.2	56
100.0	76.3	3.0	71.3	71.3	71.9	74.1	76.6	77.9	79.1	81.0	84.6	56
320.0	64.2	3.4	56.9	58.3	59.4	62.2	64.9	66.5	67.4	68.2	74.3	U€.
000.0	52.1	3.8	42.8	45.6	47.4	49.4	51.6	54.1	56.6	57.6	64.6	202











DATES: 30 JUN-6 JUL 82 BUOY: 1784

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 200FT

FREQUENC	Υ	STD					MEDIAN	J			
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	95.4	8.9	80.1	84.7	86.1	89.0	94.Q	100.0	102.8	110.3	124.0
10.0	88.0	11.2	71.8	75.3	77.8	79.7	84.9	92.6	100.1	108.2	122.0
12.5	85.9	8.7	74.0	74.9	76.3	79.1	83.6	92.1	97.2	100.4	112.4
15.6	84.6	7.6	74.5	76.4	77.3	78.7	81.6	90.1	93.6	98.6	106.9
20.0	83.4	6.0	73.9	74.5	76.4	79.4	82.5	85.4	89.3	95.3	100.5
40.0	80.0	5.1	64.1	74.3	75.6	76.1	79.7	83.2	86.4	89.2	90.9
50.0	79.3	5.3	62.9	73.3	74.2	76.3	78.5	82.9	86.2	88.9	89.5
63.0	75.6	4.9	58.2	69.6	71.2	73.0	74.4	78.2	81.7	85.0	85.8
100.0	72.3	5.1	53.3	61.9	67.1	70.4	72.3	75.2	77.4	78.3	81.3
320.0	59.0	5.9	30.5	50.8	53.6	56.8	58.8	61.7	63.9	67.1	71.7
1000.0	51.8	5.6	34.4	40.1	44.1	50.1	51.7	54.2	59.7	60.2	63.8

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 300FT

FREQUENC	Υ	STD					MEDIAN	V			
HZ ·	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	96.4	11.9	77.0	80.2	81.3	88.5	92.3	104.3	107.4	124.0	124. Ó
10.0	90.2	11.5	74.0	75.6	76.9	81.6	86.9	98.9	105.3	107.3	122.0
12.5	85.4	9.4	73.6	74.5	75.9	77.7	81.9	92.5	100.0	101.8	102.8
15.6	86.6	8.6	74.6	76.8	76.8	80.7	82.7	90.6	100.9	100.9	105.2
20.0	84.5	7.5	73.7	76.3	76.5	79.0	81.5	87.0	97.8	97.8	100.6
40.0	78.1	6.8	65.6	66.4	68.9	73.6	77.9	82.3	86.4	88.9	93.0
50.0	76.9	7.2	60.5	62.7	66.5	73.5	76.7	82.1	84.6	87.3	91.6
63.0	75.7	7.1	59.9	61.6	64.3	71.6	76.3	80.8	84.3	84.9	89.1
100.0	70.0	7.6	51.3	53.5	59.1	65.5	71.5	74.9	79.1	79.1	83.0
320.0	57.8	7.0	31.1	44.6	50.4	55.7	58.4	60.9	64.4	67.7	71.0
1000.0	49.3	8.5	30.4	30.4	30.4	44.1	51.6	54.6	58.5	61.7	61.7
STOP											

TATES: 30 JUN-6 JUL 82 BUOY: 1784

OUTPUT IN FILE SYNA1784

DISPLACEMENT (N. MI.): 33.960 NORTH: -33.960 EAST: 0.223 DIRECTION (TRUE): 179.640

THE NUMBER OF DATA SAMPLES IS 56

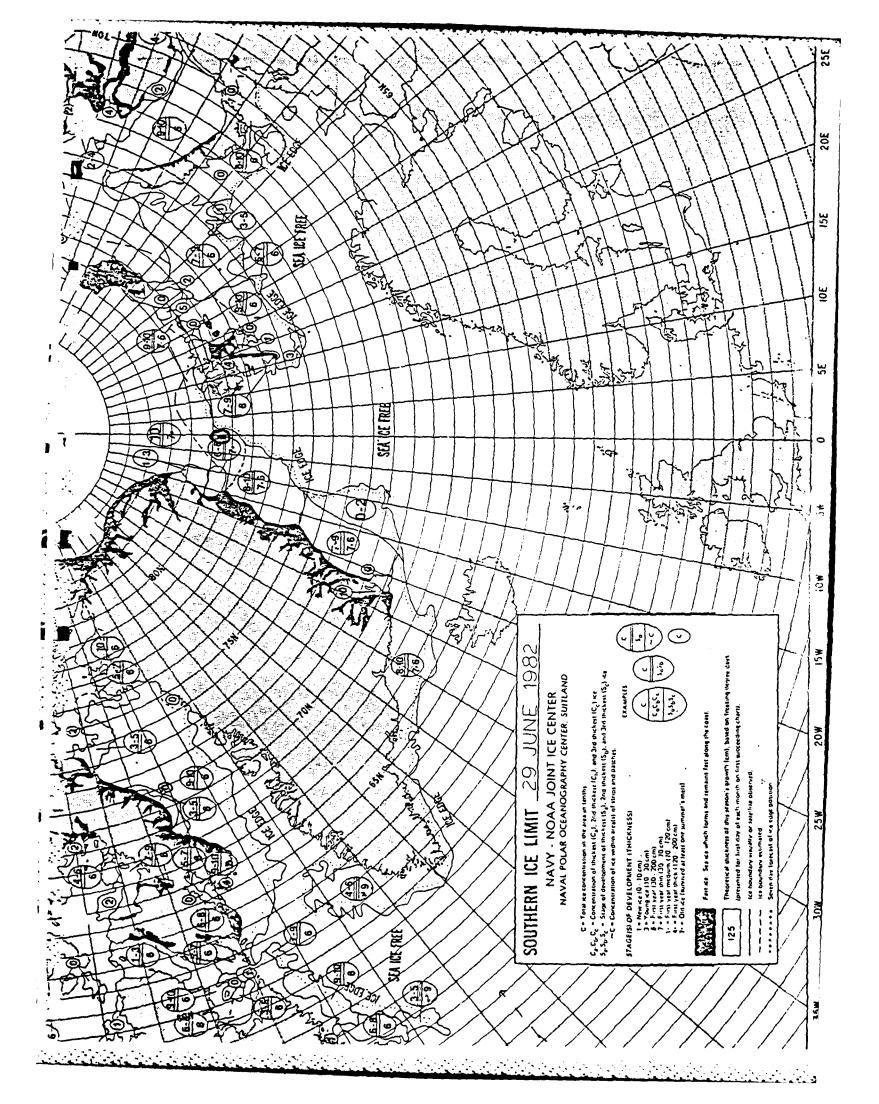
■ DEPTH = 30FT

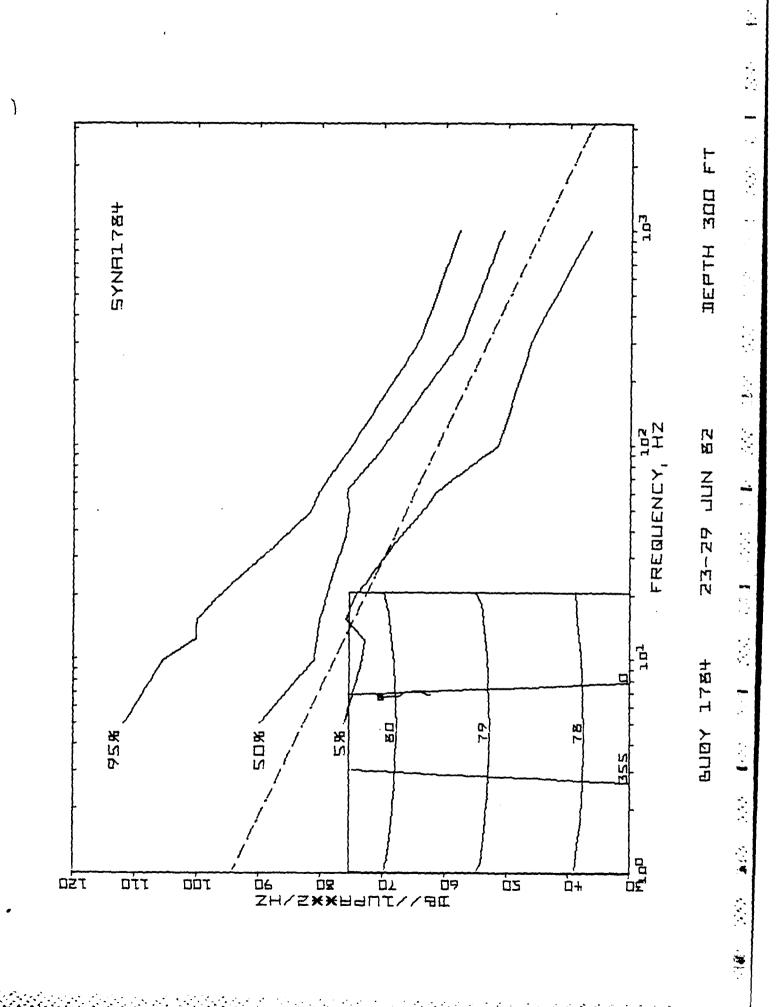
FREQUENC	:Y	STD					MEDIAN	ı				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
5.0	82.7	8.0	70.5	73.3	74.7	76.5	80.7	84.7	94.6	97.3	104.1	56
10.0	72.9	9.2	62.1	62.9	62.9	65.4	70.8	76.8	87.0	92.2	97.4	56
12.5	73.5	7.4	66.6	66.6	67.5	68.3	71.0	75.1	84.7	89.1	96.7	56
15.6	73.6	7.8	66.3	66.9	66.9	67.5	70.3	75.4	83.7	89.8	97.0	56
20.0	69.7	8.9	59.8	61.0	61.0	62.9	65.8	73.0	83.2	88.6	92.1	56
40.0	69.9	6.0	61.5	63.1	64.0	65.6	68.1	72.3	73.3	82.9	85.6	56
50.0	71.6	5.5	64.3	65.3	65.3	67.1	69.7	73.8	80.5	81.8	84.3	56
63.0	71.2	4.9	64.1	65.1	66.0	67.6	69.5	73.6	78.9	81.0	82.2	56
100.0	68.8	4.2	62.1	62.7	64.6	65.4	68.1	69.7	75.7	77.5	80.2	56
320.0	58.0	3.8	52.5	53.2	53.9	55.2	56.8	60.0	63.7	66.0	67.2	56
1000.0	45.4	4.8	37.6	39.1	39.7	40.9	45.1	47.9	51.8	53.9	56.4	1.6

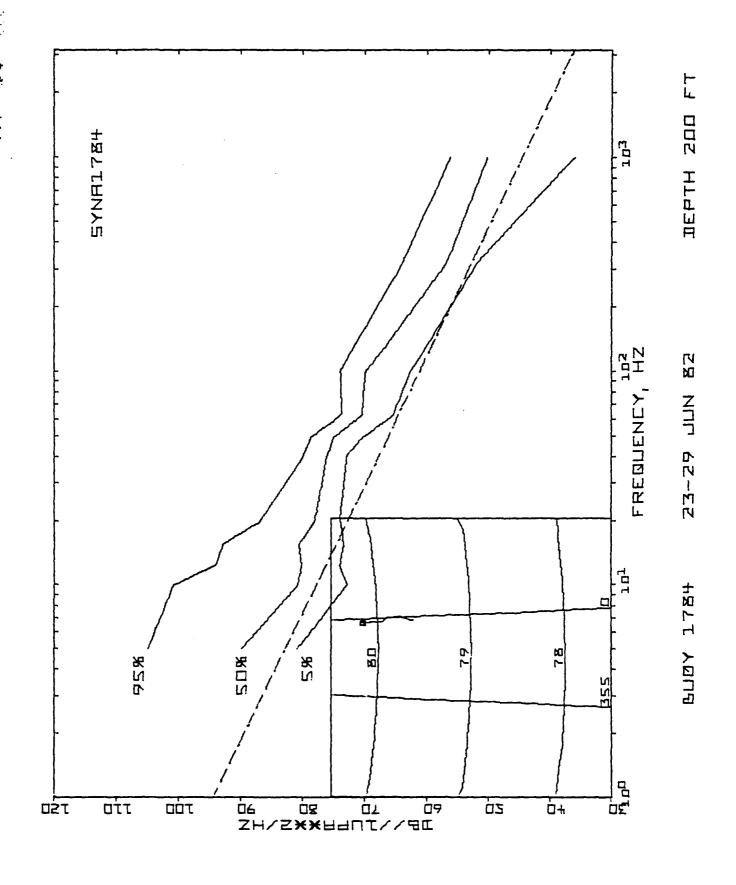
THE NUMBER OF DATA SAMPLES IS 56

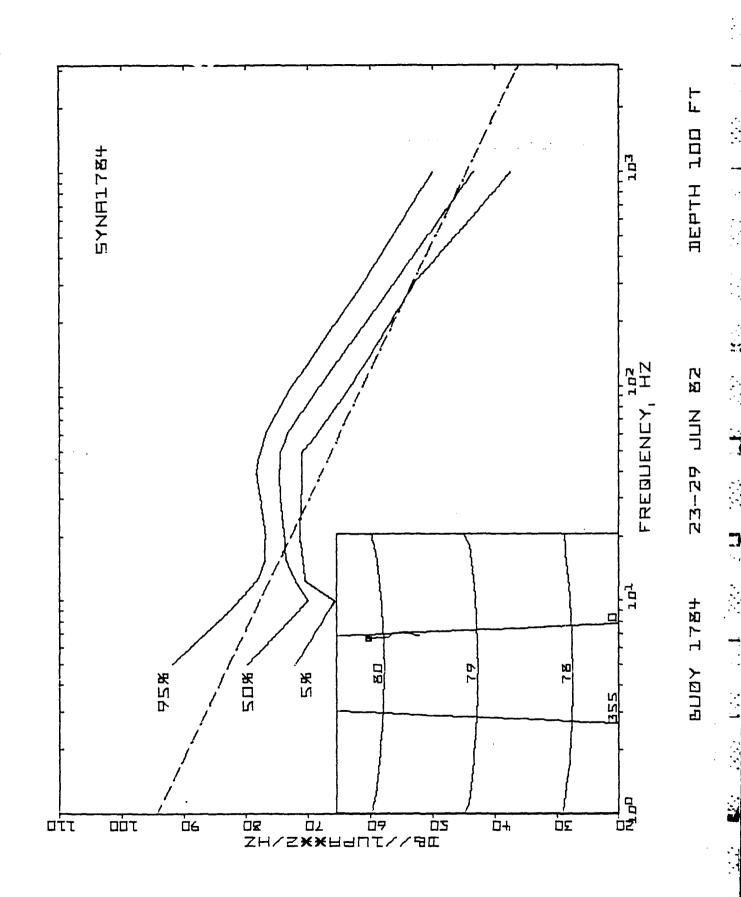
DEPTH = 100FT

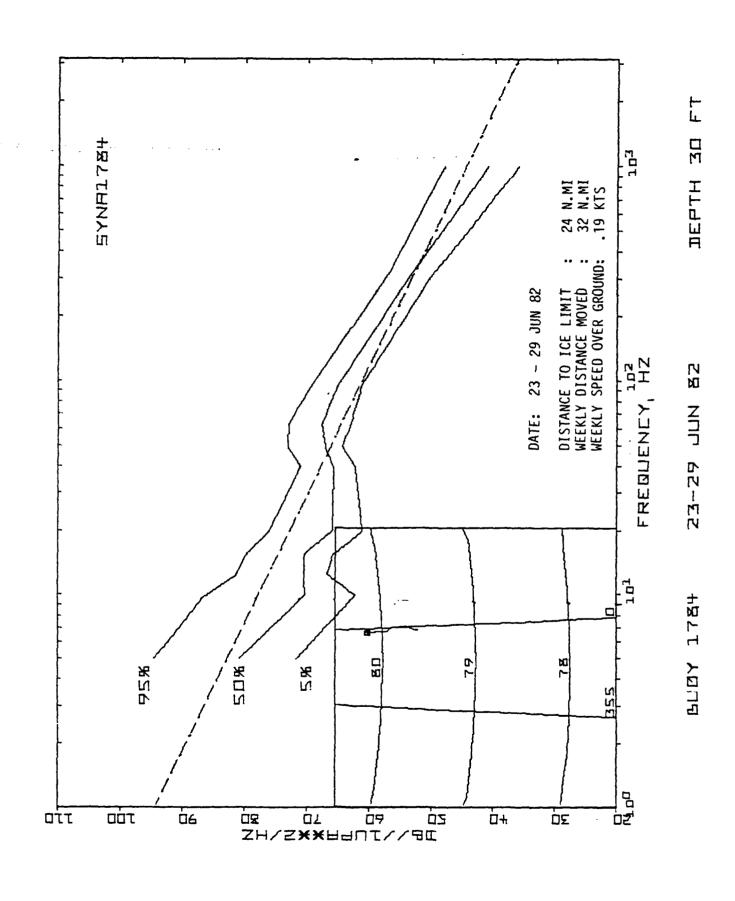
FREQUENC	Υ	STD					MEDIAN	t				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	Ν.
5.0	85.5	4.7	76.5	77.2	79.7	82.5	85.2	87.7	91.8	92.8	98.8	196
10.0	75.1	4.6	68.3	68.9	69.9	71.6	74.3	77.7	80.9	82.8	90.5	Sec
12.5	74.8	3.3	70.5	70.5	71.3	72.8	74.0	77.4	79.4	80.0	86.6	3c
15.6	75.2	3.1	70.7	71.7	71.7	73.5	74.2	76.1	78.6	81.6	85.5	56
20.0	76.3	4.0	70.7	70.7	71.9	73.8	75.4	77.3	82.1	85.0	86.7	54
40.0	79.1	4.5	72.1	72.7	73.7	76.2	78.2	83.6	84.8	86.7	37.5	56
50.0	78.5	4.2	70.9	73.4	73.4	75.3	77.6	81.4	84.3	85.5	87.4	1.6
63.0	76.8	4.0	71.1	71.7	72.9	72.9	75.7	80.0	81.7	83.1	85.0	5
100.0	72.9	3.8	65.3	66.5	68.1	69.S	72.5	75.0	79.1	79.1	80.1	57
320.0	60.1	4.2	54.4	55.4	56.2	56.9	58.3	61.4	67.4	68.2	70.9	5/
1000.0	48.1	4.9	41.3	41.3	42.8	43,4	47.4	50.6	54.8	56.6	60.8	5.

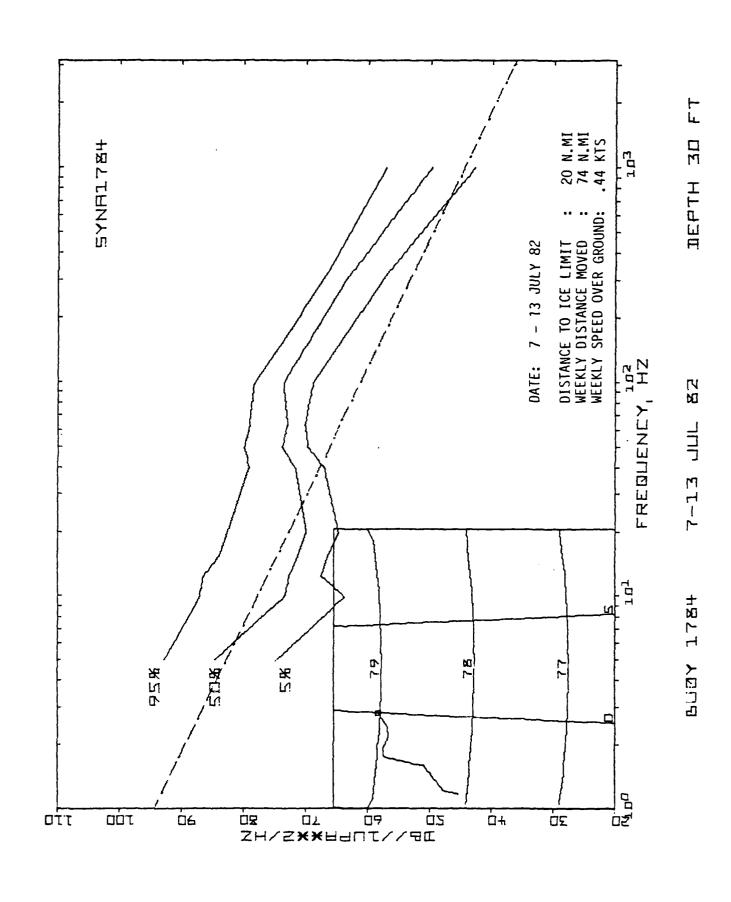


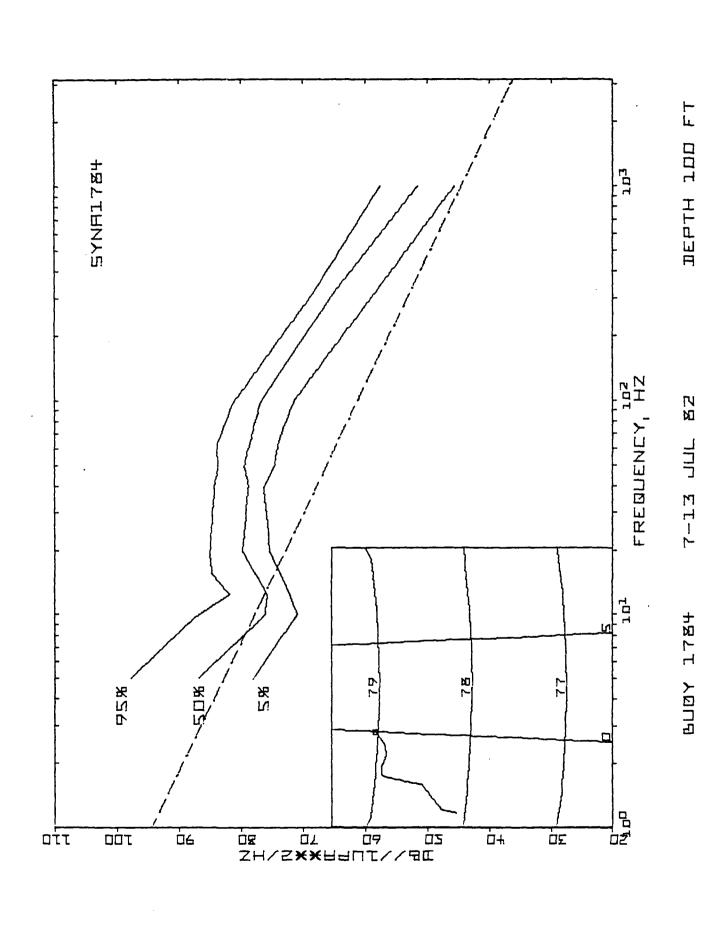


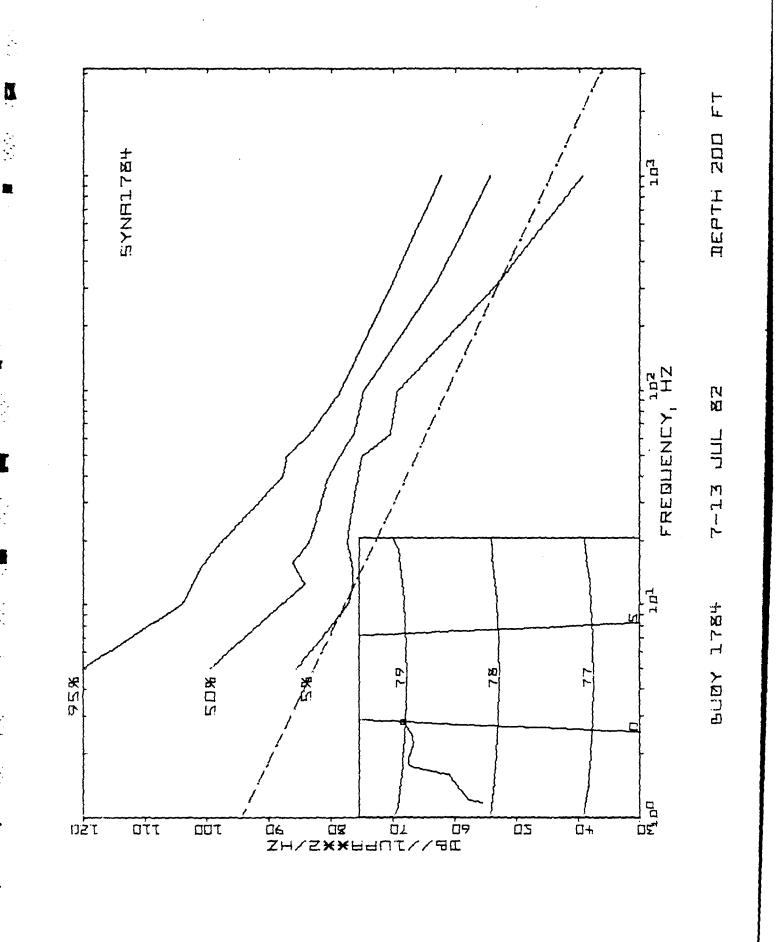


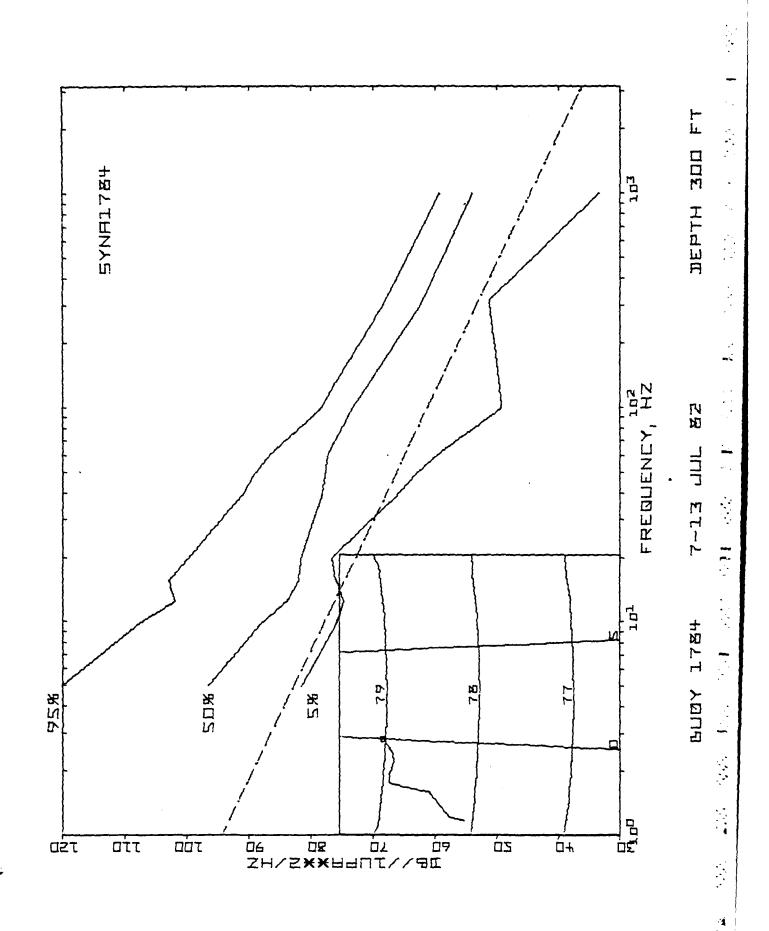




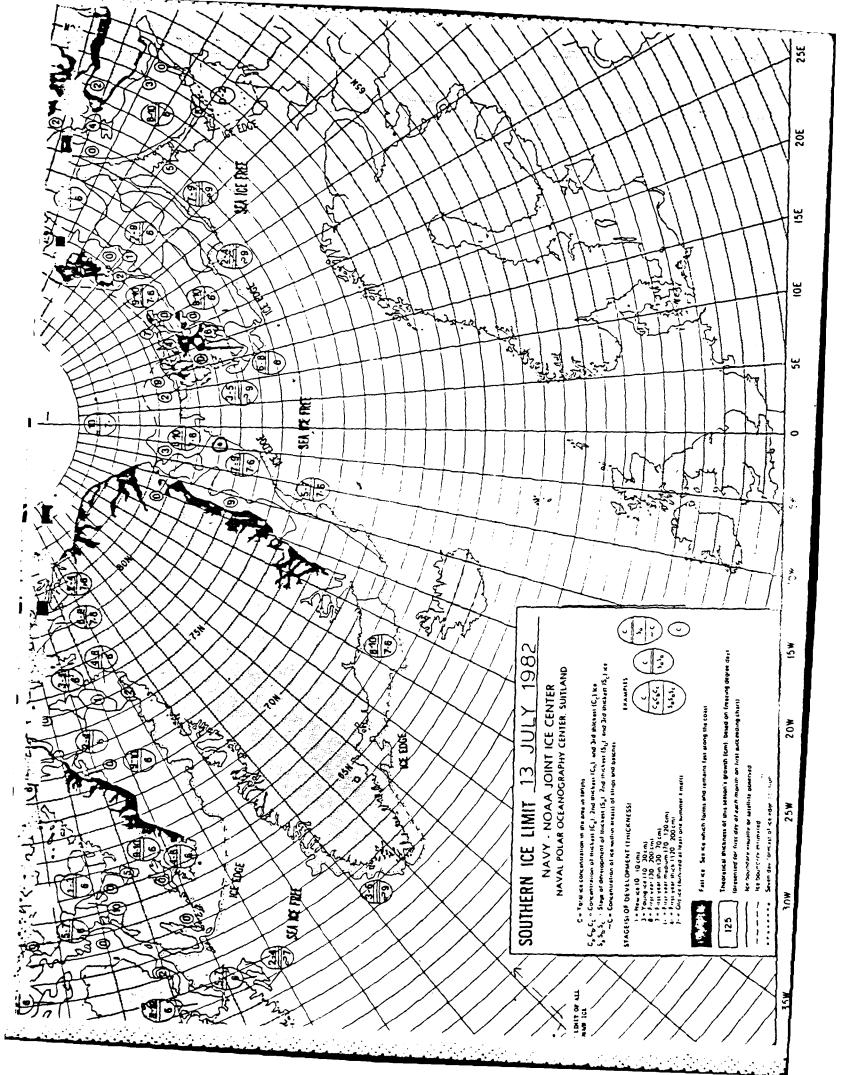








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> nates: 14-20 JUL 82 BUOY: 1784

OUTPUT IN FILE SYNA1784

DISPLACEMENT (N. MI.): 70.279 NORTH: -65.160 EAST: 26.332 DIRECTION (TRUE): 158.008

THE NUMBER OF DATA SAMPLES IS 56

■ DEPTH = 30FT

FREQUENC	Y	STD					MEDIAN	l				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	Ν
5.0	84.0	5.7	74.7	76.5	76.5	79.3	82.5	87.4	91.3	93.4	101.6	16
10.0	72.7	7.9	62.1	63.6	64.2	65.4	71.4	76.8	83.4	87.6	93.7	1/2
12.5	72.5	5.0	66.6	67.5	67.5	69.1	71.0	74.4	78.6	80.4	92.4	-16
15.6	71.1	5.1	65.0	66.3	66.9	67.5	69.4	72.9	76.3	79.5	90.4	56
20.0	70.6	4.6	62.9	63.7	65.8	67.0	69.8	73.0	75.8	77.2	86.1	56
40.0	70.8	3.7	63.1	64.9	66.9	68.1	70.0	72.3	76.1	76.9	82.9	56
50.0	72.4	3.3	66.2	66.2	69.1	69.7	72.2	74.5	76.3	78.3	79.9	56
63.0	72.6	3.2	67.6	68.9	68.9	70.1	72.0	73.6	76.1	78.1	81.0	56
100.0	71.9	3.1	66.9	67.5	68.1	69.7	71.5	74.1	75.7	77.5	78.9	56
320.0	62.9	2.8	58.5	58.5	59.3	60.6	62.8	64.5	66.6	67.8	68.8	56
1000.0	50.4	3.3	44.4	45.1	45.7	47.9	50.4	52.9	53.9	55.7	57.8	1/2

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 100FT

FREQUENC	Υ	STD					MEDIAN					
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
5.0	89.0	7.8	75.6	79.1	80.7	85.2	88.5	91.2	96.6	99.7	124.0	1,16
10.0	78.0	6.5	68.3	69.9	70.3	73.7	76.8	79.7	86.4	89.7	100.0	1,16
12.5	77.2	5.0	70.5	71.3	73.4	74.0	75.6	78.8	83.4	87.7	96.2	. Ú
15.6	77.5	3.9	70.7	73.5	73.5	75.5	76.7	78.6	80.9	85.5	94.2	54
20.0	30.4	2.5	76.1	77.3	77.9	78.9	79.8	81.4	83.9	83.9	90.0	56
40.0	79.0	2.8	72.7	74.6	75.5	76.9	78.7	80.7	82.3	84.2	86.7	'5ć
50.0	78.9	2.3	73.4	74.4	76.2	77.6	78.9	80.5	80.5	81.4	86.5	11/2
63.0	78.3	2.6	72.9	73.9	74.8	76.4	73.4	80.0	81.7	82.5	83.8	Eu/
100.0	77.6	2.3	73.1	73.1	75.0	75.9	77.3	79.1	80.1	81.0	84.0	56
320.0	64.8	2.4	60.5	61.4	61.4	62.2	64.9	66.5	67.4	67.4	71.5	t _{et}
1000.0	52.2	3.1	46.5	46.5	48.1	50.0	51.6	54.8	54.1	56.6	60.1	. 16

DATES: 14-20 JUL 82 BUOY: 1784

THE NUMBER OF DATA SAMPLES IS 56

DEPTH = 200FT

FREQUENC	:Y	STD					MEDIAN	4			
ΗZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	102.2	10.8	86.8	87.4	89.9	94.0	100.0	107.4	119.0	124.0	124.0
10.0	93.0	10.7	77.8	78.8	80.6	83.8	89.9	101.9	106.7	108.2	122.0
12.5	90.4	9.1	76.9	79.1	80.9	83.0	87.7	98.1	102.2	104.4	109.3
15.6	89.0	8.1	75.5	78.0	80.5	81.6	86.6	95.3	101.4	103.0	105.0
20.0	87.1	6.8	77.3	78.0	80.0	81.6	86.6	90.8	98.6	99.6	101.4
40.0	81.6	5.0	74.3	75.0	75.6	78.1	80.3	84.1	89.2	91.7	92.9
50.0	81.3	4.5	74.2	74.2	75.6	77.4	80.2	84.5	88.3	89.5	91.4
63.0	78.6	3.9	73.0	73.0	73.7	75.7	78.2	81.1	83,3	86.5	87.7
100.0	74.1	4.7	63.8	65.4	67.1	70.4	75.8	77.4	78.3	79.9	80.6
320.0	61.0	5.4	51.8	51.8	52.8	55.7	62.3	65.6	67.7	68.3	68.9
1000.0	48.5	8.6	24.4	32.3	36.0	41.5	50.1	55.2	58.4	59.1	60.2

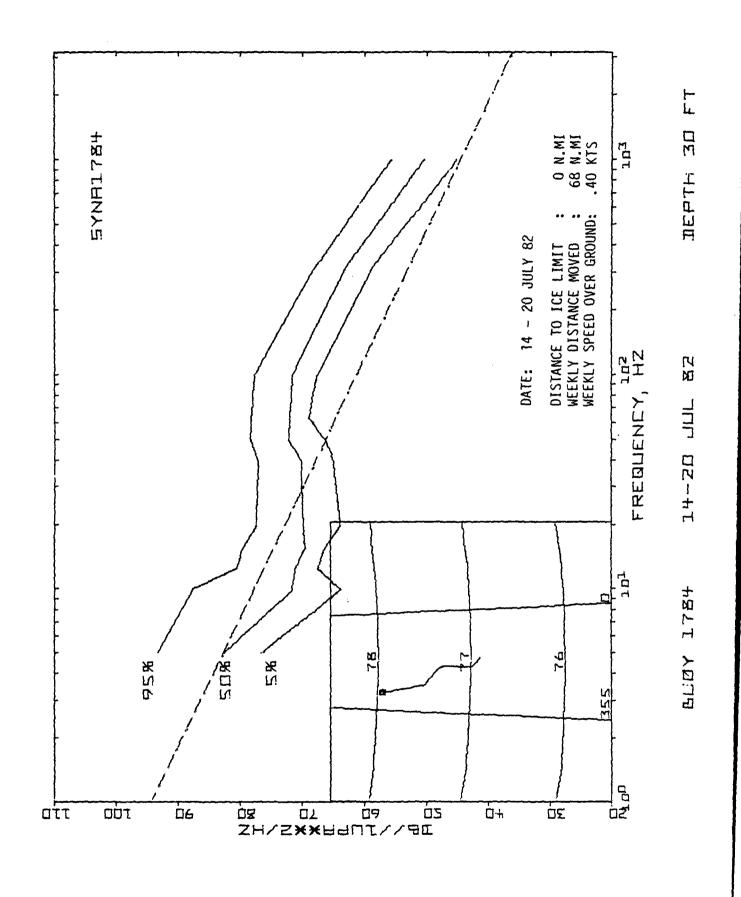
Z .6. .6

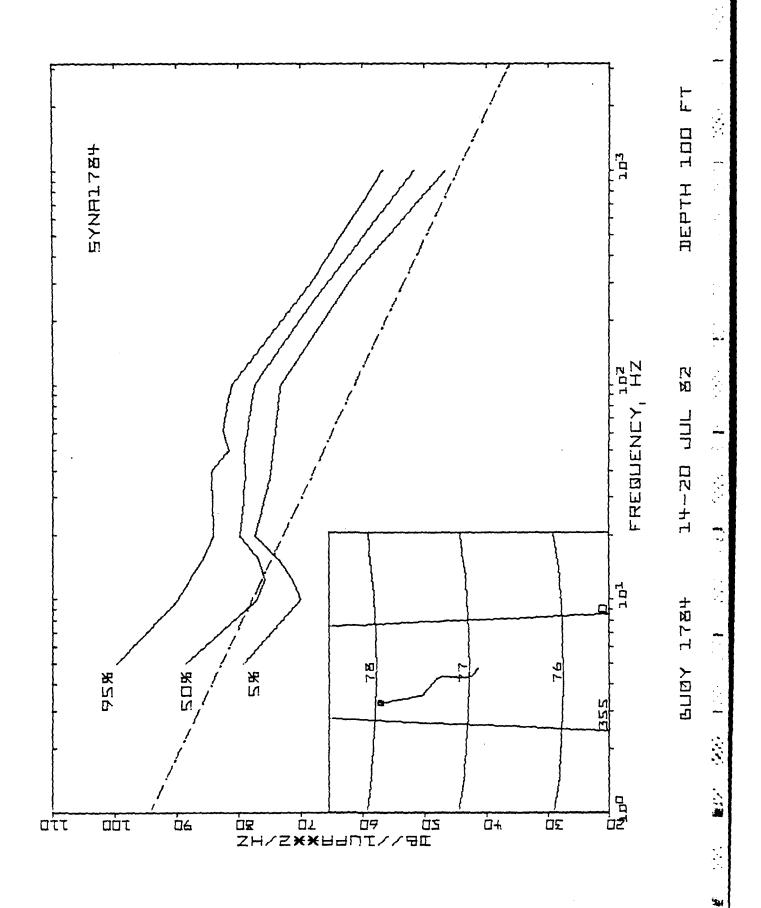
54 55 56

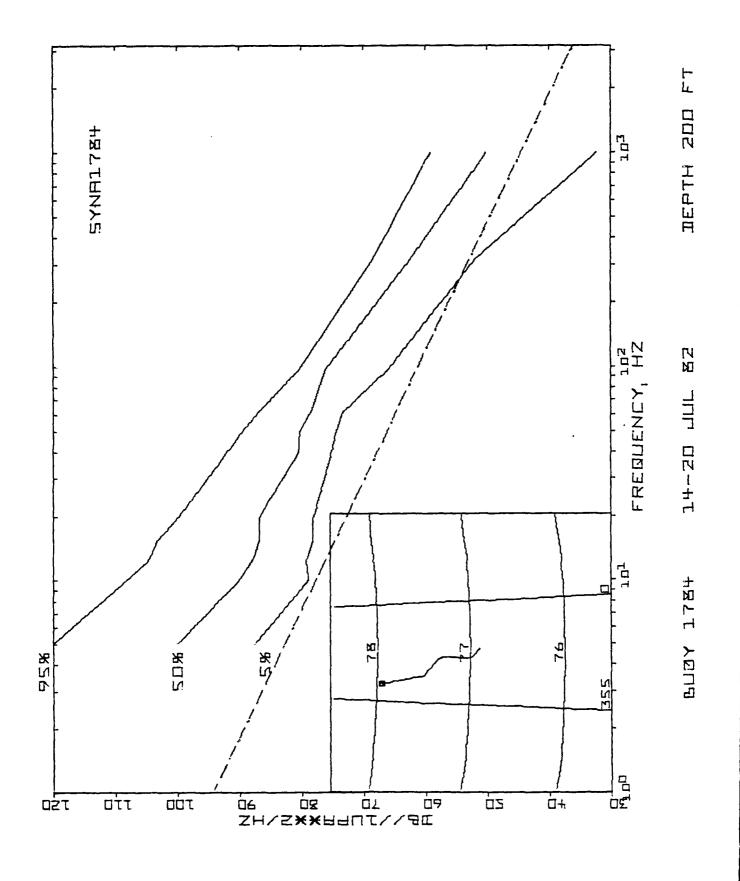
THE NUMBER OF DATA SAMPLES IS 56

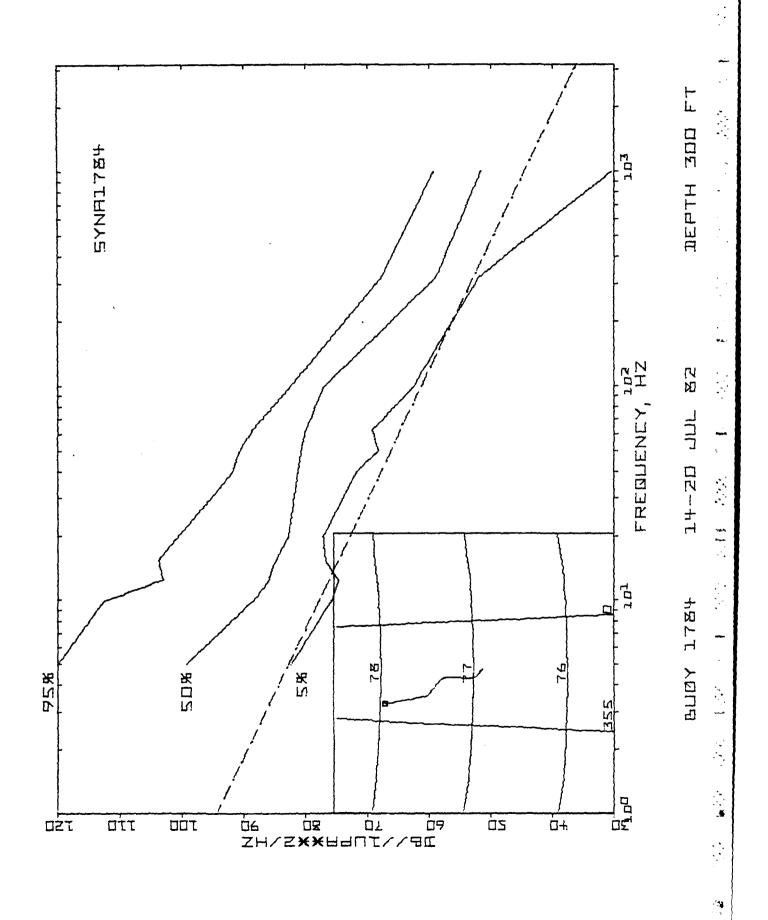
DEPTH = 300FT

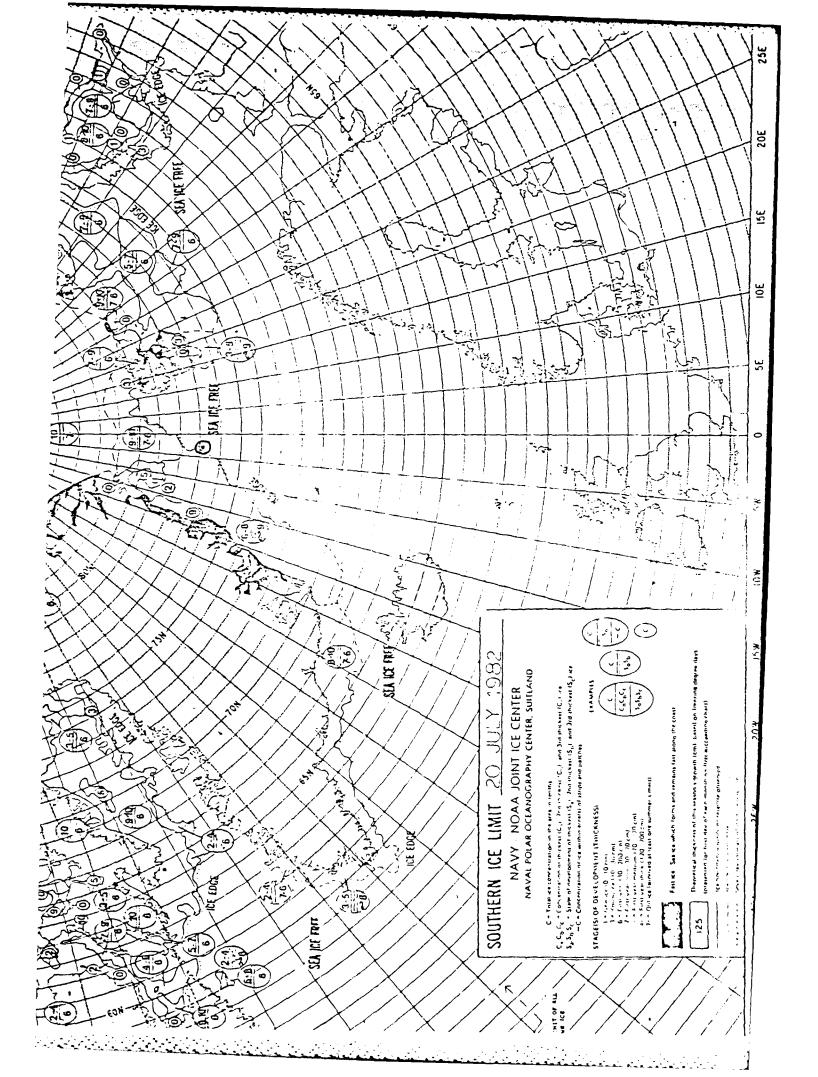
FREQUENC	Υ	STD					MEDIAN	١			
HZ.	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX
5.0	99.6	13.7	79.7	82.2	83.0	87.3	99.3	107.4	124.0	124.0	124.0
10.0	93.4	13.9	74.0	75.6	76.9	30.9	88.3	107.3	112.4	112.4	116.9
12.5	88.9	11.3	72.7	74.5	75.8	77.7	85.7	101.8	102.8	102.8	104.9
15.6	89.5	10.7	75.2	76.8	77.7	80.0	84.6	101.8	103.7	103.7	104.4
20.0	87.8	9.3	75.5	77.1	77.4	79.7	82.6	98.4	99.6	100.6	101.6
40.0	82.3	7.3	64.8	71.6	73.6	76.3	81.0	88.9	90.8	91.6	92.4
50.0	82.1	6.7	62.7	68.1	75.3	77.4	80.5	88.1	90.0	90.6	91.6
63.0	80.3	5.9	63.7	69.1	72.8	76.3	79.9	84.9	86.8	88.4	89.1
100.0	75.2	6.4	54.9	62.3	65.5	72.1	76.9	79.1	80.9	82.3	84.1
320.0	59.4	6.2	35.9	51.8	52.9	54.9	58.9	64.4	66.9	67.7	70.4
1000.0	48.9	10.2	30.4	30.4	33.4	40.9	51.6	55.2	56.7	59.2	74.8
STOP											











3: 21-27 JUL 82 BUDY: 1784

JT IN FILE SYNA1784

LACEMENT (N. MI.): 20.015 NORTH: -19.860 EAST: 2.491

CTION (TRUE): 172.867

NUMBER OF DATA SAMPLES IS 25

H = 30FT

QUENC	ΣY	STD					MEDIAN	V				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	90%	95%	MAX	N
5.0	100.5	8.7	84.5	84.5	90.5	95.6	99.4	106.3	108.0	112.8	124.0	25
10.0	89.3	9.4	72.4	72.4	78.4	80.9	88.3	95.5	100.9	104.5	108.9	25
12.5	86.3	8.5	71.6	71.6	76.4	77.6	87.8	92.4	94.5	99.2	102.7	25
15.6	85.0	7.7	72.3	72.3	72.9	78.4	85.6	89.8	91.6	95.8	101.1	25
20.0	83.7	7.0	72.4	72.4	74.0	76.5	83.9	87.0	92.1	97.1	98.1	25
40.0	78.6	5.4	70.9	70.9	72.3	73.6	77.7	81.2	82.9	88.9	91.6	25.
50.0	78.7	5.3	71.3	71.3	72.2	73.1	77.4	83.4	84.3	87.8	90.3	្ទទ
63.0	79.1	4.0	72.9	72.9	73.6	75.6	79.7	81.6	82.2	87.0	87.6	25
100.0	75.8	3.2	71.5	71.5	72.2	72.9	74.7	77.5	79.6	81.8	82.7	Z 5
320.0	66.9	3.4	59.3	59.3	63.7	64.5	66.6	43.8	70.6	72.0	74.8	25
000.0	58.8	4.5	52.9	52.9	53.9	55.7	57.1	60.9	64.4	67.7	69.8	ୀ5

NUMBER OF DATA SAMPLES IS 25

TH = 100FT

EQUENO	Y	STD					MEDIAN	1				
HZ	AVG	DEV	MIN	5%	10%	25%	50%	75%	20%	95%	MAX	N
5.0	96.0	9.5	83.9	83.9	86.8	89.3	91.8	101.3	104.8	115.5	124.0	· =
10.0	86.3	8.1	74.3	74.3	76.8	79.1	83.7	94.9	97.2	98.4	99.0	-
12.5	85.3	7.2	76.5	76.5	78.1	80.0	82.5	88.4	96.9	98.7	99.7	25
15.6	84.6	7.0	76.7	76.7	77.7	78.6	82.7	84.9	94.8	96.7	101.8	25
20.0	84.3	5.9	72.9	72.9	78.9	80.7	83.9	87.5	88.8	94.8	100.2	25
40.0	80.9	4.9	72.7	72.7	73.7	76.2	80.7	84.2	85.8	89.6	90.2	25
50.0	81.8	4.3	73.4	73.4	76.9	78.9	81.4	83.5	87.4	87.0	90.3	7,6
63.0	80.0	5.2	66.9	66.9	72.9	76.4	80.9	82.5	86.9	87.7	87.7	-
100.0	80.4	4.8	70.6	70.5	75.0	77. 🤊	78.5	84.6	86.2	87.1	92.4	25
320.0	67.2	7.4	49.3	49.3	53,4	62.2	69.0	70.9	71.5	77.5	78.5	7.192
QGŮ,Q	55.8	8.4	31.1	31.1	43, 4	51.6	58.6	40.1	60.8	68.1	68.7	. c .

3: 21-27 JUL 82 BUOY: 1784

NUMBER OF DATA SAMPLES IS 25

H = 200FT

QUEN	CY	STD					MEDIAN	4				•
HZ	AVG	DEV	MIN	5%	107	25%	50%	75%	90%	95%	MAX	N
5.0	102.3	8.7	88.0	88.0	88.8	95.0	101.9	106.2	113.6	113.6	124.0	4
10.0	96.0	14.8	55.8	55.8	81.3	85.4	96.9	100.1	114.2	122.0	122.0	5
12.5	89.3	10.0	67.8	67.8	71.2	81.0	90.2	95.0	103.2	104.4	104.4	24
15.6	88.4	10.5	70.1	70.1	74.5	79.6	88.5	96.8	103.7	104.4	105.0	~5
20.0	86.2	10.7	62.6	62.6	71.4	78.6	87.6	96.1	98.6	99.6	100.5	. 5
40.0	76.6	15.8	41.1	41.1	51.0	63.2	83.2	87.0	90.9	91.7	93.7	25
50.0	78.3	10.0	51.9	51.9	60.8	71.4	80.2	85.4	90.5	90.5	90.5	23
63.0	78.9	7.2	60.9	60.9	45.8	76.2	79.8	85.0	85.8	85.8	87.1	. 2
00.0	69.7	10.5	49.1	49.1	52.7	62.6	71.4	78.3	79.9	82.4	88.5	_2
120.0	58.1	9.3	45.7	45.7	45.7	49.2	55.0	67.1	70.8	71.7	73.1	22
000.0	47.3	10.7	24.4	24.4	32.3	42.7	46.4	59.7	60.2	60.2	64.5	3

NUMBER OF DATA SAMPLES IS 25

TH = SOOFT

EQUENO	ΣY	STD					MEDIAN	V				1
HZ 🕡	AVG	DEV	MIN	5%	10%	25%	50%	75%	907	95%	MAX	N.
5.0	105.5	10.6	87.8	87.8	89.2	92.3	107.4	109.6	115.2	124.0	124.0	25
10.0	100.2	10.5	83.2	83.2	85.7	87.7	102.2	106.1	112.4	116.9	116.9	5
12.5	94.3	8.6	80.0	80.0	80.6	83.7	97.7	100.6	101.8	103.9	104.9	5
15.6	94.5	9.4	75.8	75.8	80.9	83.8	98.1	101.8	103.7	104.4	104.4	25
20.0	91.2	8.7	71.1	71.1	78.4	81.0	91.8	99.6	99.6	100.6	100.6	25
40.0	83.6	9.2	63.9	63.9	68.3	76.8	87.7	89.9	91.6	92.4	93.0	5
50.0	80.5	8.5	62.7	62.7	67.3	75.3	80.5	86.5	90.6	91.6	91.6	25
63.0	79.1	8.3	63.O	63.0	64.9	75.6	79.9	85.9	88.4	89.1	89.1	,25
100.0	73.2	9.0	48.0	48.0	60.0	68.0	76.3	79.1	82.3	83.0	83.6	. 5
320.0	59.1	6.8	44.6	44.6	46.8	54.9	58.4	61.7	69.8	70.4	71.0	- 4
000.0	49.6	8.9	30.4	30.4	36.0	42.7	51.6	54.6	59.9	61.2	61.7	18
D												

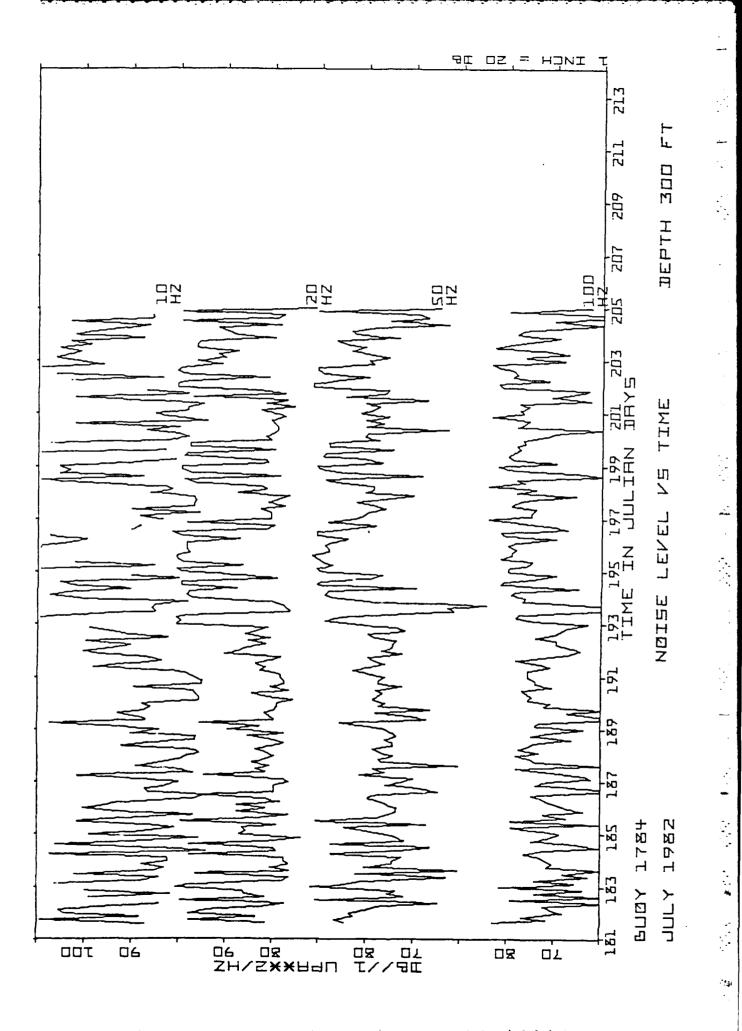
APPENDIX 6

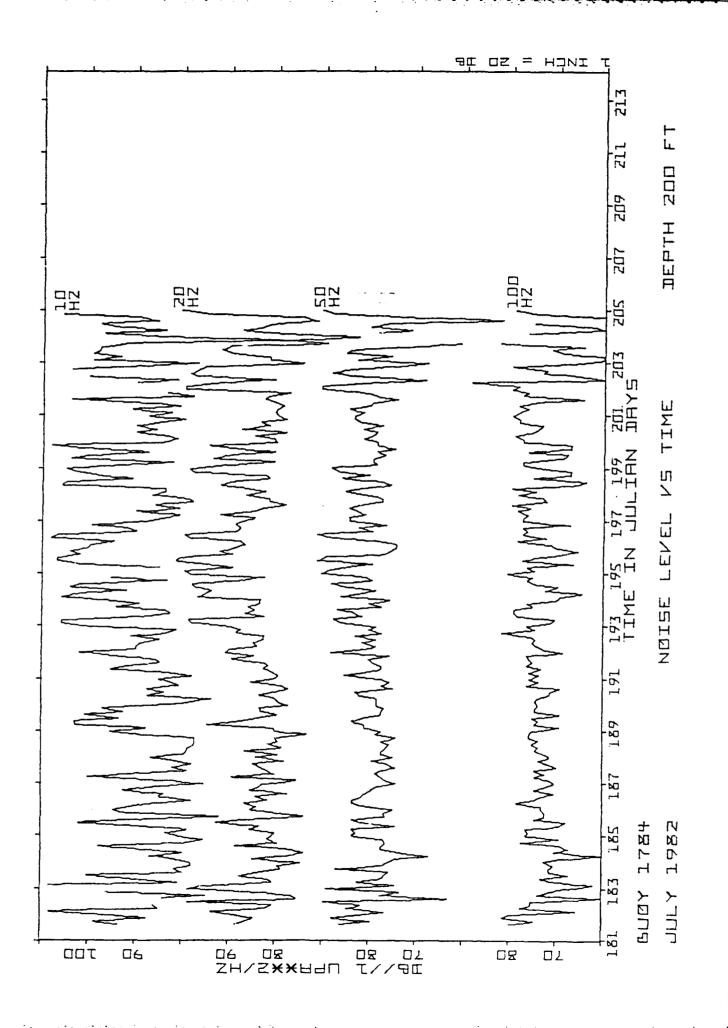
Date Buoy I.D. 2888

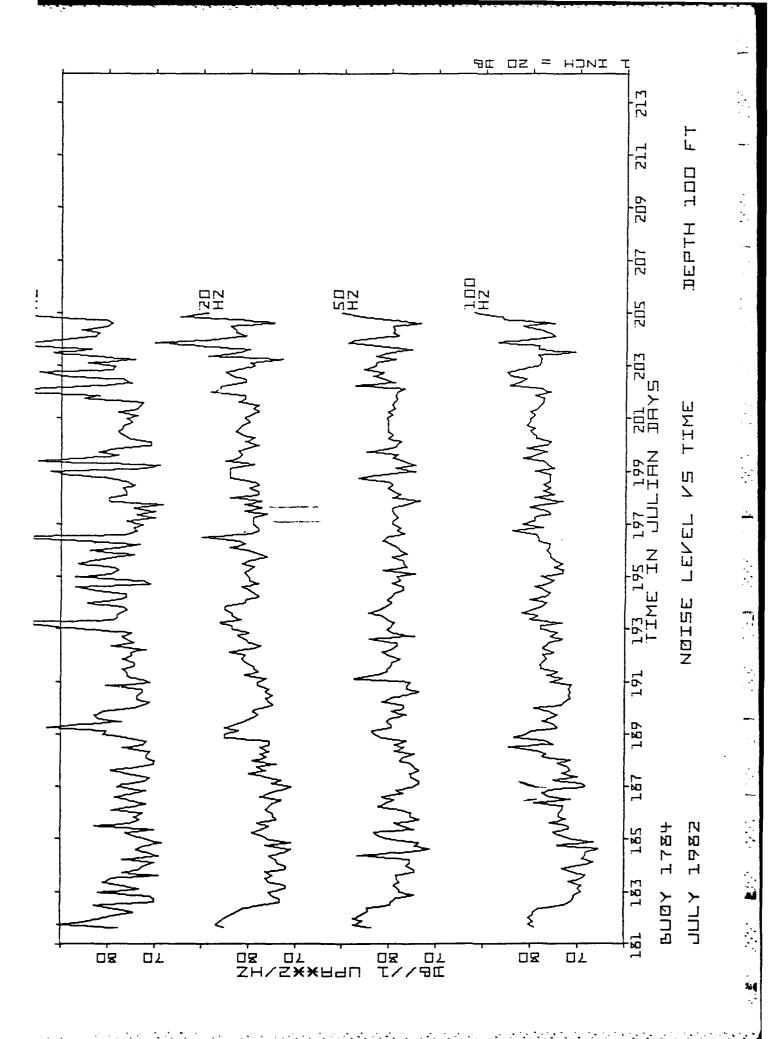
Life in Reporting Area 2 (West Greenland Sea)

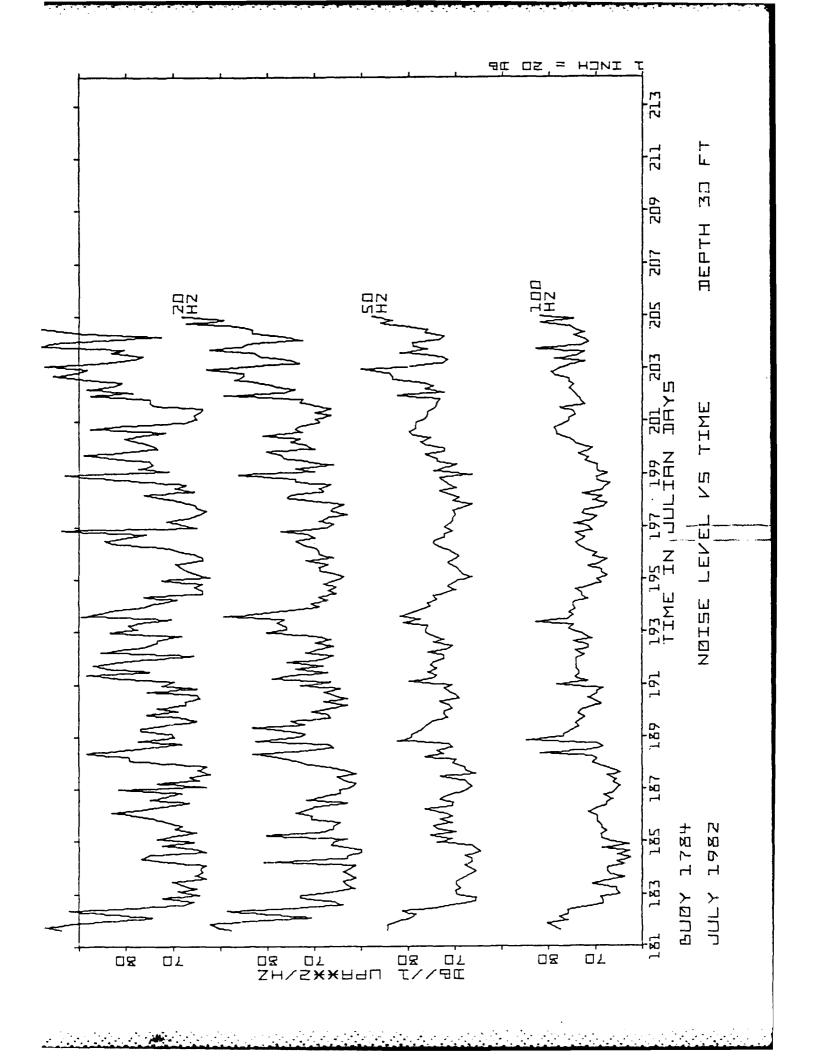
1 Dec 1983 - 30 Apr 1984

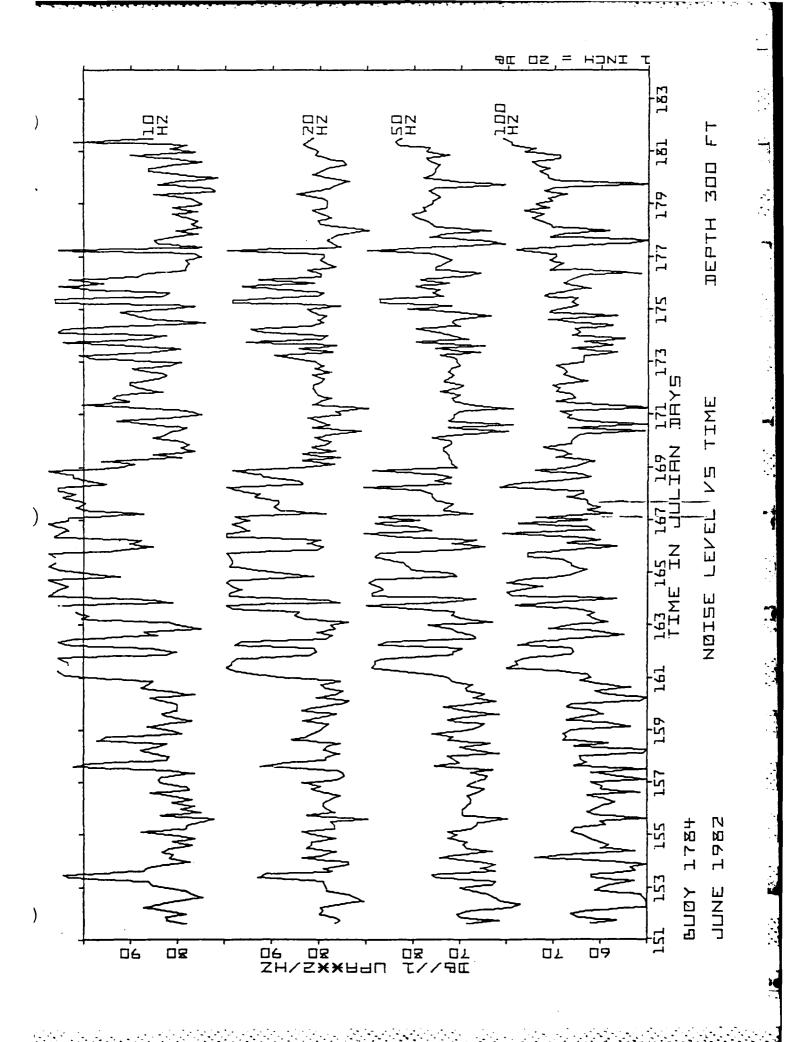
Type: SYNARGOS (5 - 320 Hz)

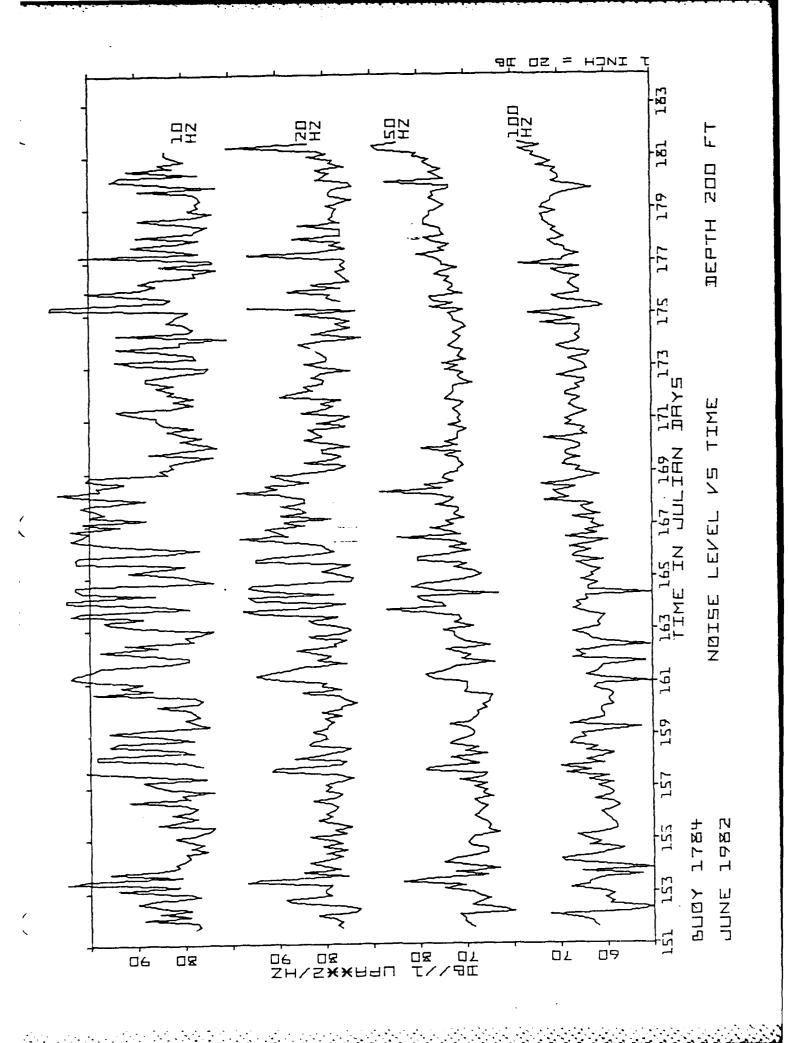


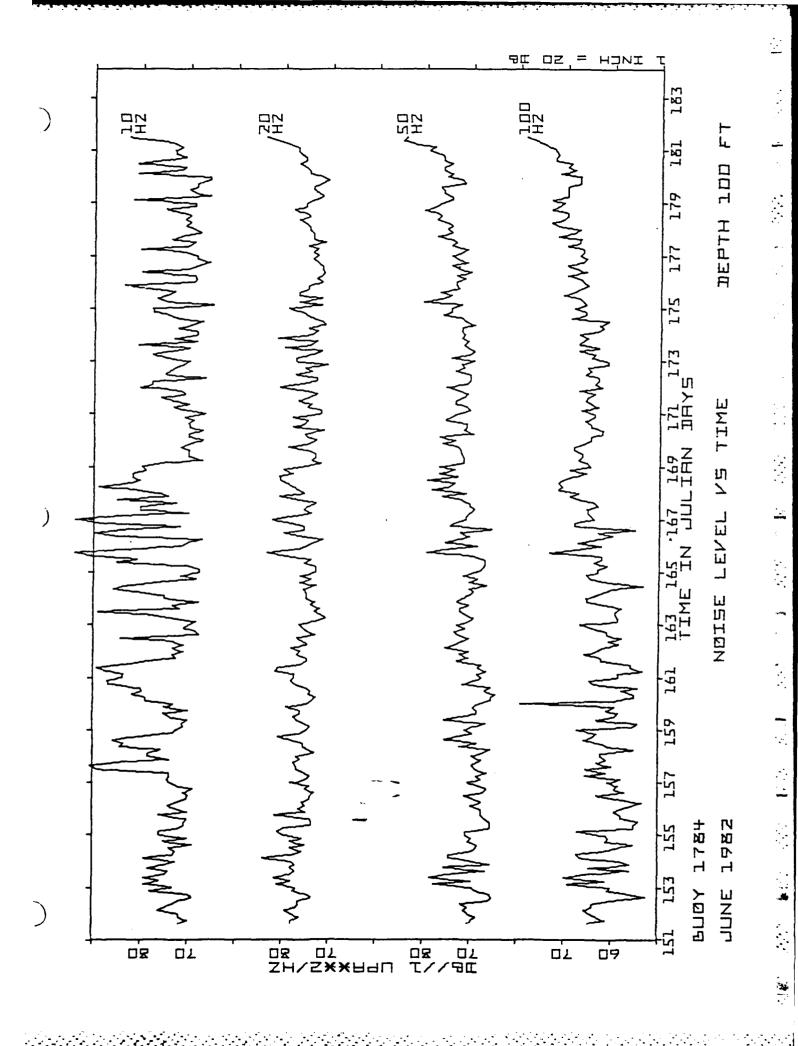


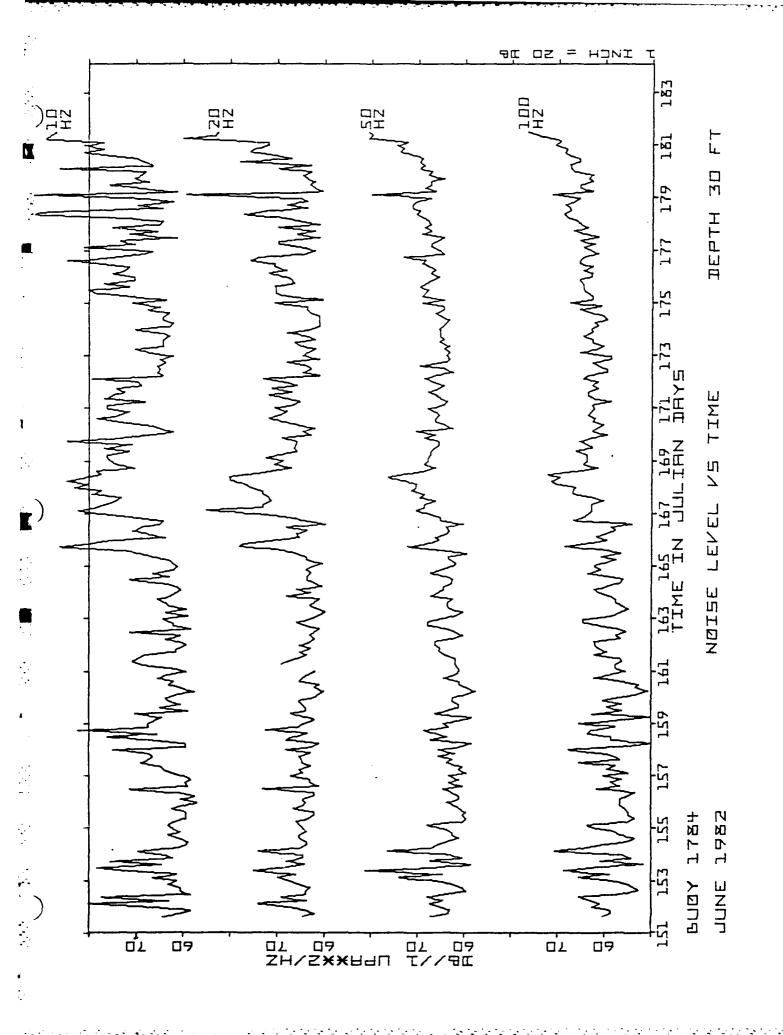


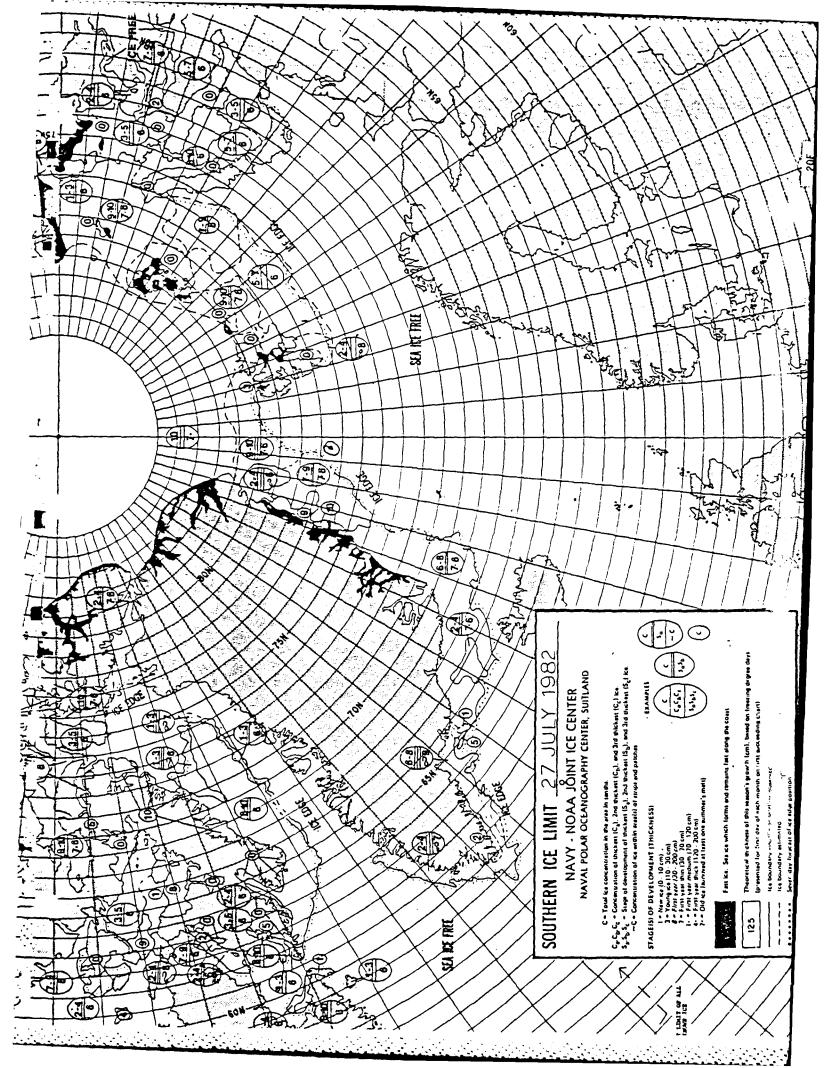


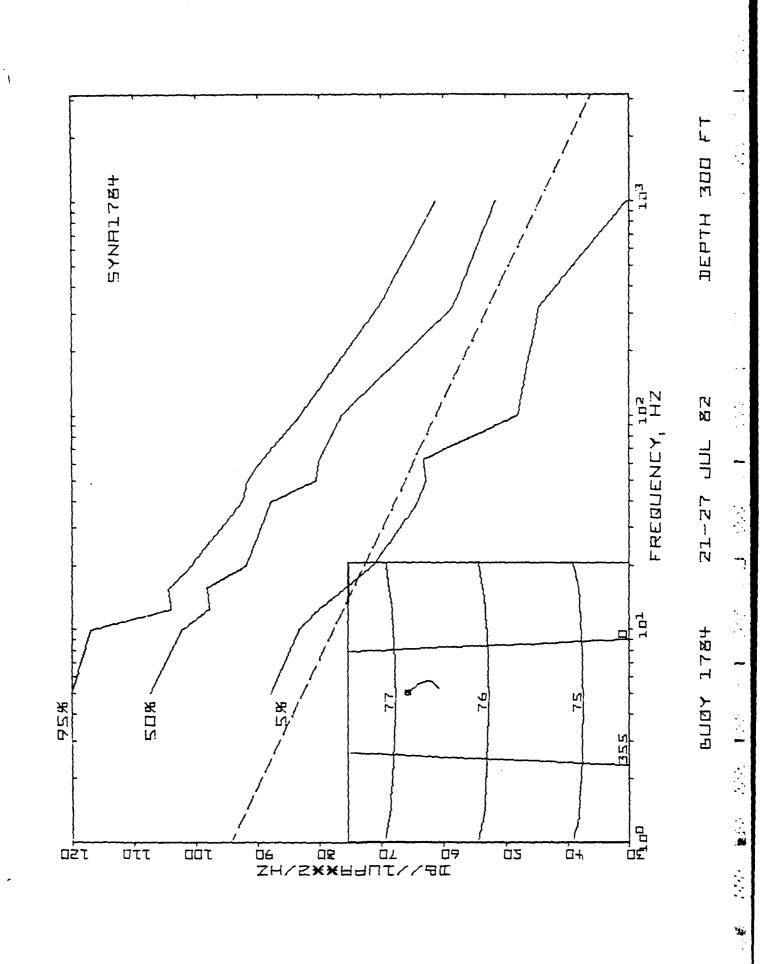


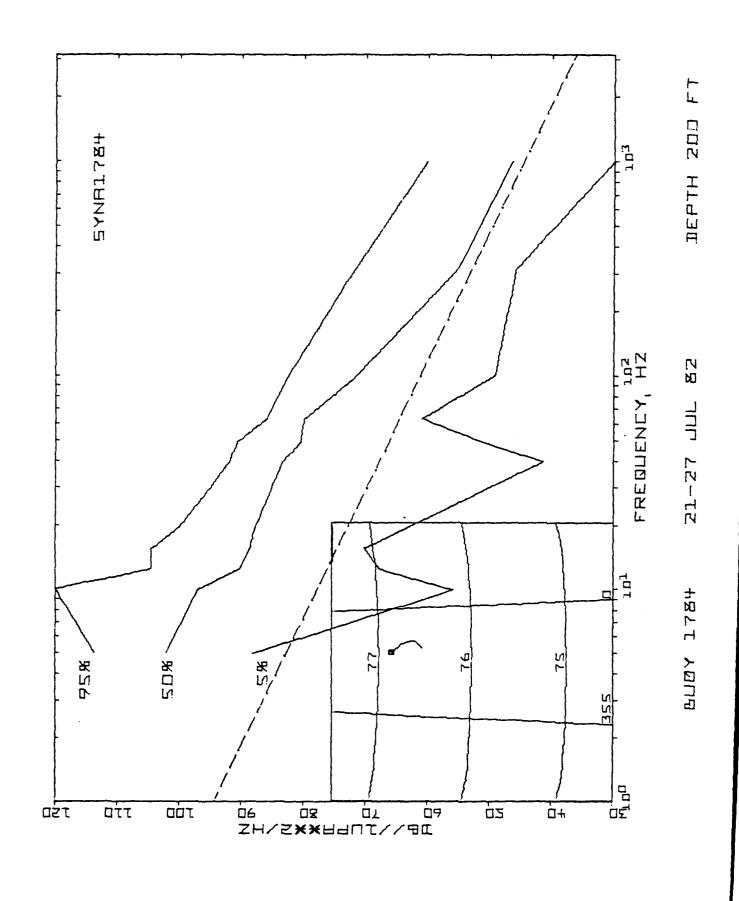


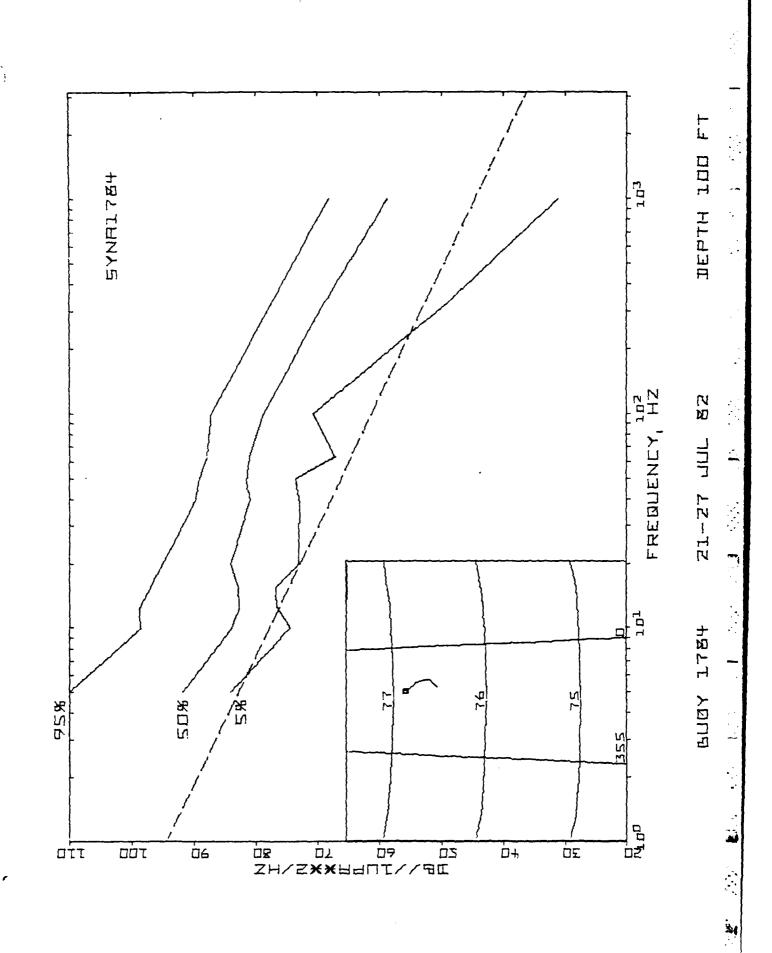


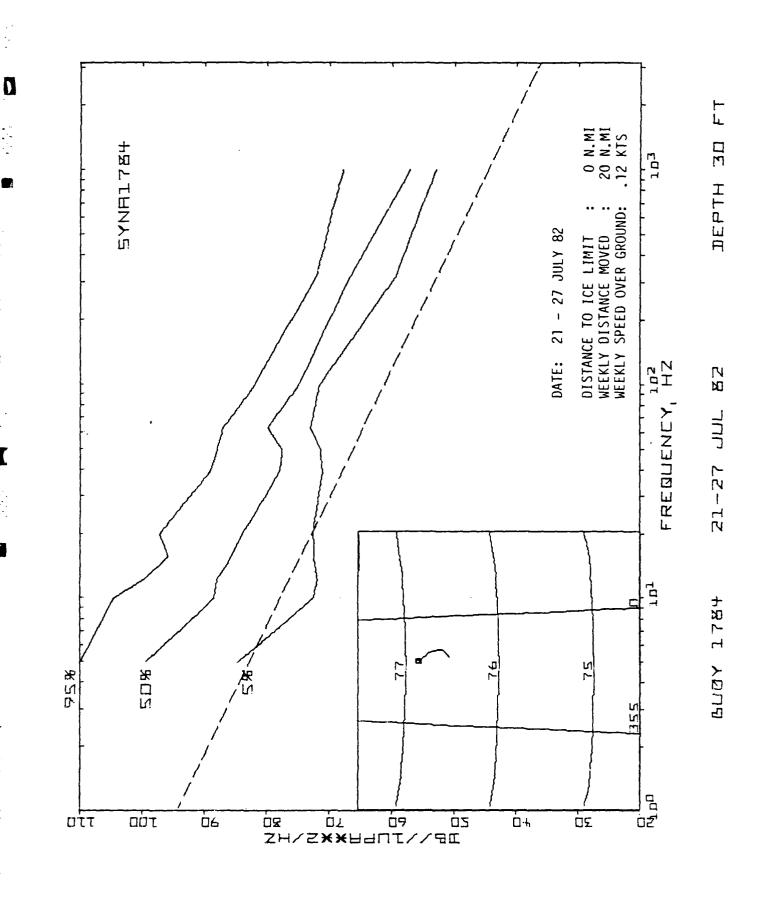












BUOY ID 2888

DAY	GMT P	OSITION	DAY	GMT	POSIT	NOT
335	503 82.96	2 N 0.497 W	351	503	82.077 N	4.745 W
336	446 83.11		352	452	81.960 N	4.641 W
337	431 83.11	· · · · · · · · · · · · · · · · · · ·	353	436	81.876 N	4.453 W
338	420 82.99		354	453	81.863 N	4.421 W
339	404 82.89	6 N 2.871 W	355	431	81.722 N	4.217 W
340	455 82.83	19 N 2.858 W	356	403	81.349 N	3.846 W
341	433 82.69	7 N 2.968 W	357	350	81.226 N	3.884 W
342	503 82.50	6 N 3.735 W	358	503	81.177 N	3.749 W
343	458 82.50	6 N 3.735 W	359	502	81.176 N	3.761 W
344	503 82.43	8 N 3.908 W	360	453	81.060 N	4.051 W
345	447 82.40	6 N 4.043 W	361	441	81.041 N	3.842 W
346	426 32.31	3 N 4.275 W	362	430	81.041 N	3.847 W
347	410 82.25		363	417	80.896 N	4.099 W
348	359 82.19	2 N 4.633 W	364	434	30.651 N	4,517 W
349	500 82.18		365	415	80.649 N	4.514 W
350	503 82.08	-				

BL / ID 2888

JANUARY 1984

DAY	GMT	POSIT	ION		1	DAY	GMT	P09	TI	TION	
1	353	80.352 N	5.214	W		17	449	76.535	N	12.140	W
2		30.062 N	5.626	W		18	503	76.227	N	12,554	W
3		79.833 N	5.912	W		19	503	76,218	Ν	12.587	W
4		79.712 N	5.845			20	451	76.006	N	12.845	W
5	–	79.605 N	5.863			21				13,037	
6		79.492 N	5.966			22				13.036	
7		79.383 N	6.102			23		75.945		12,997	
•			6,079			24				13.044	
8		79.380 N									
9	421	79.014 N	7.340	W		25	349	75.676	N	13.196	W
10	503	78.724 N	8.859	W		26	453	75.546	Ν	13.226	W
11	458	78.190 N	10.408	W		27	503	75.536	Ν	13.239	W
12	457	78.190 N	10.403	W		28	453	75.325	N	13.589	W
13	435	77.367 N	11.701	W		29	440	75.166	Ν	13.867	W
14	421		11.728			30	503	75.204	Ν	14.004	W
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11.952			31				14.013	
15		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				31	773	7.01.200	17	X 71 0 1 C	**
16	503	74.811 N	11.920	W							

FEBRUARY 19' +

DAY	GMT	POSITION		DAY	GMT	POSI	TION	
32	424	75.170 N 14.119	W	47	422	72.338 N	19.860	W
33		74.991 N 15.207		43		71.366 N		
34		74.991 N 15.207		49	453	71.366 N	20.879	W
35	503	74.938 N 15.942	W	50	343	70.133 N	21.309	W
36	457	74.926 N 16.009	W	51	331	69.654 N	20.878	W
37	444	74.754 N 16.880	W	52	501	68.930 N	23.072	W
38	431	74.339 N 18.047	W	53	451	68.689 N	24.203	W
.39	417	74.047 N 18.716	W	54	438	68.445 N	24:720	W
40	451	73.911 N 18.814	W	55	425	68.445 N	24.720	W
41	429	73.790 N 18.758	W	56	410	68.245 N	25.662	W
42	405	73.485 N 18.921	W	57	359	68.159 N	26.342	W
43	503	73.352 N 18.938	W	58	348	68.159 N	26.342	W
44	503	73.343 N 18.928	W	59	334	68.109 N	26.870	W
45	447	72.767 N 19.191	W	60	503	68.109 N	26.3/0	W
46	434	72.767 N 19.191	W				•	

BUOY ID 2888

MARCH 1984

DAY	GMT	POSITION		DAY	GMT	POSITION
61	453	68.076 N 27.525	W	77	457	68.325 N 27.744 W
63	427	68.078 N 27.863	W	78	443	68.325 N 27.744 W
64	414	68.084 N 27.949	W	79	430	68.325 N 27.744 W
65	400	68.084 N 27.949	W	80	417	68.292 N 28.089 W
66	347	68.084 N 27.949	W	81	406	68.292 N 28.089 W
67	334	68.084 N 27.949	W	82	352	68.292 N 28.089 W
68	503	68.134 N 28.239	W	83	339	68.292 N 28.089 W
69	453	68.142 N 28.243	W	34	503	68.292 N 28.089 W
70	440	68.151 N 28.154	W	85	458	68.346 N 27.723 W
71	430	68.155 N 28.225	W	86	446	68.346 N 27.723 W
72	417	68.155 N 28.225	W	87	432	68.346 N 27.723 W
73	400	63.155 N 23.225	W	88	419	68.346 N 27.723 W
74	349	68.155 N 28.225	W	89	407	68.315 N 27.689 W
75	336	68.155 N 28.225	W	90	357	68.315 N 27.689 W
76		68.282 N 27.964		91	340	68.315 N 27.689 W

BUDY ID 2833

APRIL 1984

DAY	GMT	POSITION		DAY	GMT	POSITION
92	328	68.273 N 27.855	W	107	345	63.226 N 28.055 W
93	459	68.269 N 27.856	W	108	334	68.226 N 28.055 W
94	448	63.272 N 27.842	W	109	503	68.176 N 28.793 W
95	435	68.272 N 27.842	W	110	451	68.176 N 28.793 W
96	423	68.272 N 27.842	W	111	437	63.176 N 28.793 W
97	411	68.272 N 27.842	W	112	426	68.176 N 28.793 W
93	355	68.272 N 27.842	W	113	412	68.176 N 28.793 W
99	343	68.272 N 27.842	W	114	400	68.176 N 28.793 W
100	330	68.255 N 27.854	W	115	348	68.176 N 28.793 W
101	502	68.257 N 27.845	W	116	334	68.176 N 28.793 W
102	450	68.252 N 27.855	W	117	503	68.141 N 29.449 W
103	438	68,241 N 27,933	W	118	455	68.089 N 29.829 W
104	425	68.226 N 28.055	W	119	441	68.039 N 29.829 W
105	413	68.226 N 28.055	W	120	427	68.089 N 29.829 W
106	358	68.226 N 28.055	W	121	416	48.071 N 29.998 W

BUOY ID 2888

MAY 1984

DAY	GMT	POSITION		DAY	GMT	POS	SITION
122	405	68.066 N 29.994	W	134	451	68.019	N 30.527 W
123	349	68.066 N 29.994	W	135	445	63.019	N 30.527 W
124	335	68.066 N 29.994	W	136	433	68.019	N 30.527 W
125	503	63.066 N 29.994	W	137	421	68.019	N 30.527 W
126	456	68.019 N 30.527	W	138	409	68.019	N 30.527 W
127	443	68.019 N 30.527	W	139	357	68.019	N 30.527 W
128	431	68.019 N 30.527	W	140	339	68.019	N 30.527 W
129	415	68.019 N 30.527	W	141	323	68.019	N 30.527 W
130	404	68,019 N 30,527	W	142	500	68.019	N 30.527 W
131	351	68.019 N 30.527	W	143	447	68.019	N 30.527 W
132	340	68.019 N 30.527	W	144	435	68.019	N 30.527 W
133		68.019 N 30.527		145	423	63.019	N 30.527 W

DATA BY MONTHS

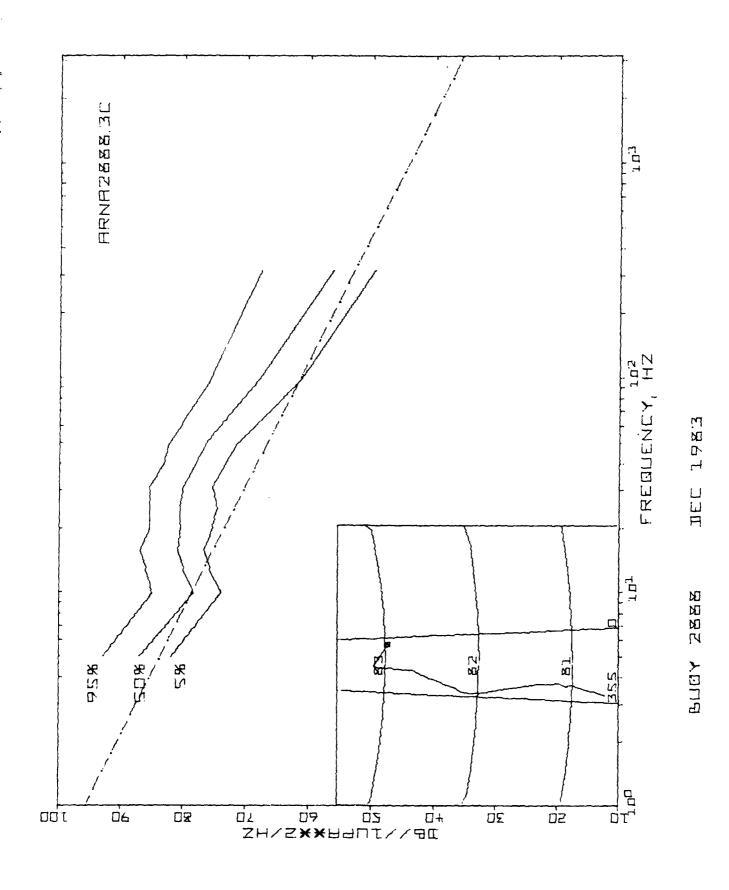
MONTH: DECEMBER 83 BUOY: 2888

OUTPUT IN FILE ARNA2888

DISFLACEMENT (N. MI.): 142.588 NORTH:-138.780 EAST: -32.730 DIRECTION (TRUE): 193.290

THE NUMBER OF DATA SAMPLES IS 248

	z	247	248	248	248	248	248	248	248	248	248	243	
	MAX	106.7	102.3	100.3	92.8	90.7	91.3	92.6	89.0	86.4	83.4	78.8	
	95%	92.9	84.8	85.8	86.8	85,3	85.3	85.3	83.0	82.2	75.4	67.5	
	20%	7.06	83.6	34.8	92.0	34.7	84.0	84.5	82.1	31.1	73.6	64.0	
	75%	38.6	80.7	82,3	89°9	83.4	82.4	81.8	80.2	79.0	70.4	59.0	
TEDIAN	50%	86.9	78.2	79.8	80.8	80.3	80.2	79.9	77.8	76.2	67.6	56.1	
Ξ	25%	84.7	76.2	78.2	79.2	78.1	78.0	77.7	76.0	73.7	64.4	53.9	
	10%	32.6	74.6	76.2	77.9	76.7	76.4	75.7	74.4	72.1	62.2	51.4	
	5%	81.8	73.7	75.5	76.5	75.1	74.4	75.2	73.2	71.2	6.09	43.4	
	NIM	30.9	70.9	72.1	73.7	71.4	71.2	71.6	70.0	66.1	57.3	47.8	
STD	DEV	ი ი	٠. 9	ი ი	ტ ტ	3.4	3.2	8.2 8	ი ი	9°2	4.5	ы	
	AVG	86.9	78.8	30.3	81.4	30.6	80.2	80.2	78.2	76.5	67.7	57.2	
FREQUENCY	HZ	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP



MONTH: JANUARY 84

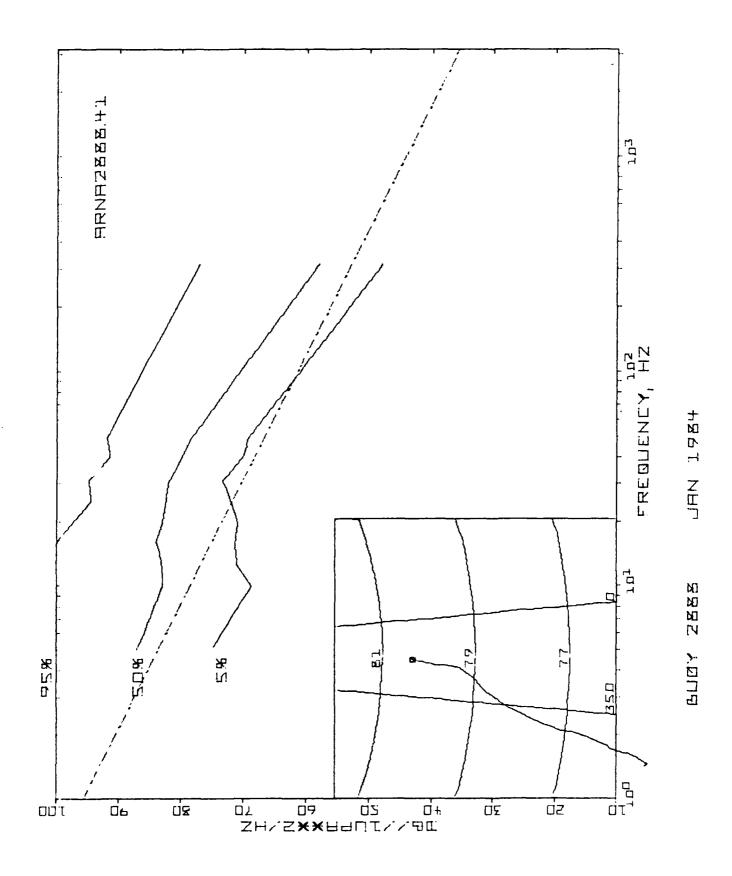
BUOY: 2888

OUTPUT IN FILE ARNA2888

DISPLACEMENT (N. MI.): 328.297 NORTH:-308.641 EAST:-111.892 DIRECTION (TRUE): 199.948

THE NUMBER OF DATA SAMPLES IS 248

	25% 50% 75% 90% 95% MAX	83.4 86.9 94.7 105.0 108.8 110.0	76.2 82.9 90.8 99.6 102.3 104.8	78.2 82.9 90.2 97.8 101.7 103.8	77.9 83.9 90.0 96.0 100.6 103.8	77.4 82.8 88.0 94.0 97.3 101.5	78.0 82.4 86.5 92.5 94.4 97.4	77.7 81.8 86.6 90.5 94.8 96.6	75.0 79.9 84.6 87.1 91.3 97.3	74.4 70.1 83.3 87.7 91.8 95.3	62.8 65.3 70.4 75.4 80.9 86.3 91.0 246	51.9 57.9 64.0 71.9 77.0 84.0	
											60.9 62.8		
	Z	71.3	65,5	67.7	67.7	68.2	69.4	69.7	67.8	6.99	56,8	45.3	
(0)											7.3		
	AVG.	00 7.	0 0 0	84.4	34. 5	80.00	82.7	82.4	000	78.8	71.1	0. 0. 0.	
FREQUENCY	7H	O ·	10.0	12.5	16.0	20.0	25.0	0.1.0 0.1.0	40.0	20.0	100.0	315.0	STOP



MONTH: FEBRUARY 84 BUOY: 2888

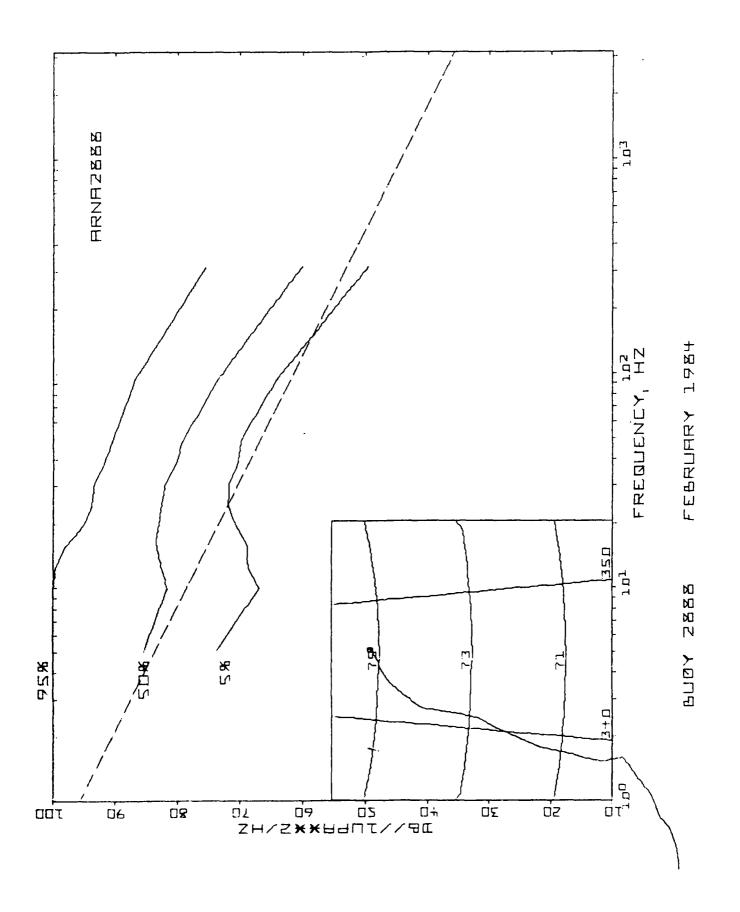
OUTPUT IN FILE ARNAZSSS

NORTH: -423.660 EAST: -241.142 DISPLACEMENT (N. MI.): 487.481 DIRECTION (TRUE): 209.671

THE NUMBER OF DATA SAMPLES IS 218

FRE	FREGUENCY		STD				Σ	MEDIAN					
_	7H	AVG		NIM	2%	10%	25%	20%	75%	206	796	MAX	
	o ហ	87.9			73.8	77.4	79.9		% ₩	-	108.8		. ,
	10.0	82.0			66.7	69,5	74.6		87.5		101.0		
	12.5	82.9			9.89	70.9	6.97		က က က		93.6		
	16.0	თ დ			68.7	72.5	77.2		00 00 00		97.8		
	20.0	82.6			70.7	72.0	76.7		0.00		94.0		
	25.0	82.3			71.9	73.3	76.4		87.5		90°.		•
	31.5	82.0			71.6	72.5	76.8		87.2		93,2		. ,
	40.0	80.0			70.0	70.9	75.0		0 0 0		91.0		•
	50.0	79.1	6.9	61.7	9.69	71.2	73.7	79.0	ი დ	ტ დ	90.2	99.1	•
	100.0	73.6			63.4	64.4	68.2		78.9		86.3		
• •	315.0	61.1			49.4	51.4	56.1		62.9		75.4		. •
STOP	ū.												
œ													

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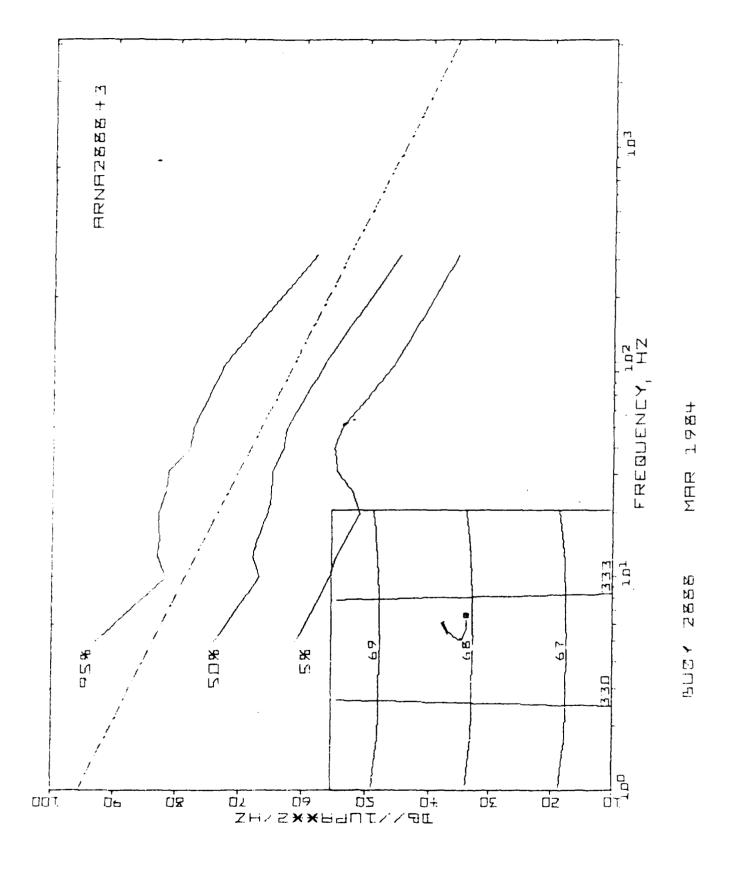
MONTH: MARCH 84

BUOY: 2888

OUTFUT IN FILE ARNAZ888

NORTH: 14.340 EAST: DISPLACEMENT (N. MI.): 14.777 DIRECTION (TRUE): 346.016

	2	() ()) (j		107	000) (i) ()) () ! !	0 0 7 0	0 0	0 (0 0	V -	Ţ	
	MAX	0.01	100.7	0.00	7 :06	0.46	102.0	0.00	. C	0.0	0.0	, r , r	•	
	756) () () ()										
	20%	6 . ES	78.7	78.2	00	79.2	79.3	78.5	76.0	75. 6	70,0	1 0 1 0 2 E		
	75%	82.6	72.7	73.7	72.5	72.0	71.9	72.5	70.0	70.04	4 € 7 .	45.7	.	
MEDIAN	20%	73,8	66.7	67.7	66.8	65.3	64.7	64.7	63,0	62.4	56.4	44.7	•	
Ξ.	25%	64.7	59.8	39.8	59.7	58.7	58.6	00 0	59.2	00 00 1	50.4	36.1	1 1 1	
	10%	61.3	6.99	56.2	54.7	50°.2	ម មា មា	56.8	56.9	56.2	46.1	05.4		
	22%	6.09	គេ គេ	54.6	92° G	50.7	51.9	54.6	55.0	53,7	45.3	35,4		
	NΙΣ	58.7	27.3	50.9	48.7	39.9	46.6	42.5	52.5	50,2	37.3	34.7		
	DEV													
	AVG													
FREQUENCY	HZ	o က်	10.0	12.5	16.0	20.0	25.0	ວ. ເຄ	40.0	0.00	100.0	0.010	STOP	œ



MONTH: APRIL 84

BUOY: 2888

OUTPUT IN FILE ARNAZ888

EAST: -47,766 DISPLACEMENT (N. MI.): 49,280 NORTH: -12,120 DIRECTION (TRUE): 255,794

THE NUMBER OF DATA SAMPLES IS 156

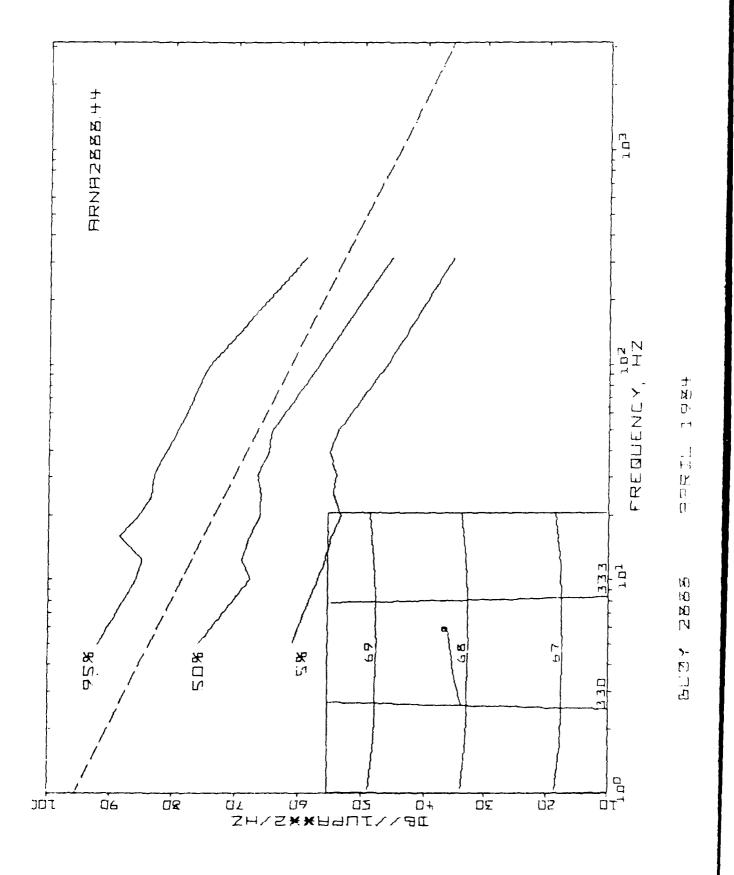
MAX 98.9 96.8 93.5 113.9 91.3 90.7 89.7 89.7 89.1 97.1 85.0 95% 851.9 851.9 884.8 885.3 885.3 882.8 882.8 87.0 779.0 90% 87.88 81.5 80.7 881.7 881.7 779.9 77.8 77.8 76.2 53.9 75% 82.6 75.5 74.6 74.7 71.4 70.3 71.6 70.0 69.0 MEDIAN 25% 64.7 61.5 60.7 60.7 61.2 61.3 61.3 60.5 36.1 10% 61.88 58.2 56.2 56.9 56.0 56.0 57.7 57.7 56.0 35.0 52, 50,00 50,00 55,00 55,00 53,00 55,00 35,00 35,00 35,00 MIN 559.9 554.6 553.7 227.5 47.8 47.8 255.1 259.0 24.0 STD DEV 10.1 9.2 9.4 9.4 8.8 AVG 75.1 69.3 68.9 68.9 66.7 66.7 66.2 66.2 64.9 FREQUENCY 16.0 20.0 25.0 31.5 40.0 50.0 100.0 5.0 10.0 12.5

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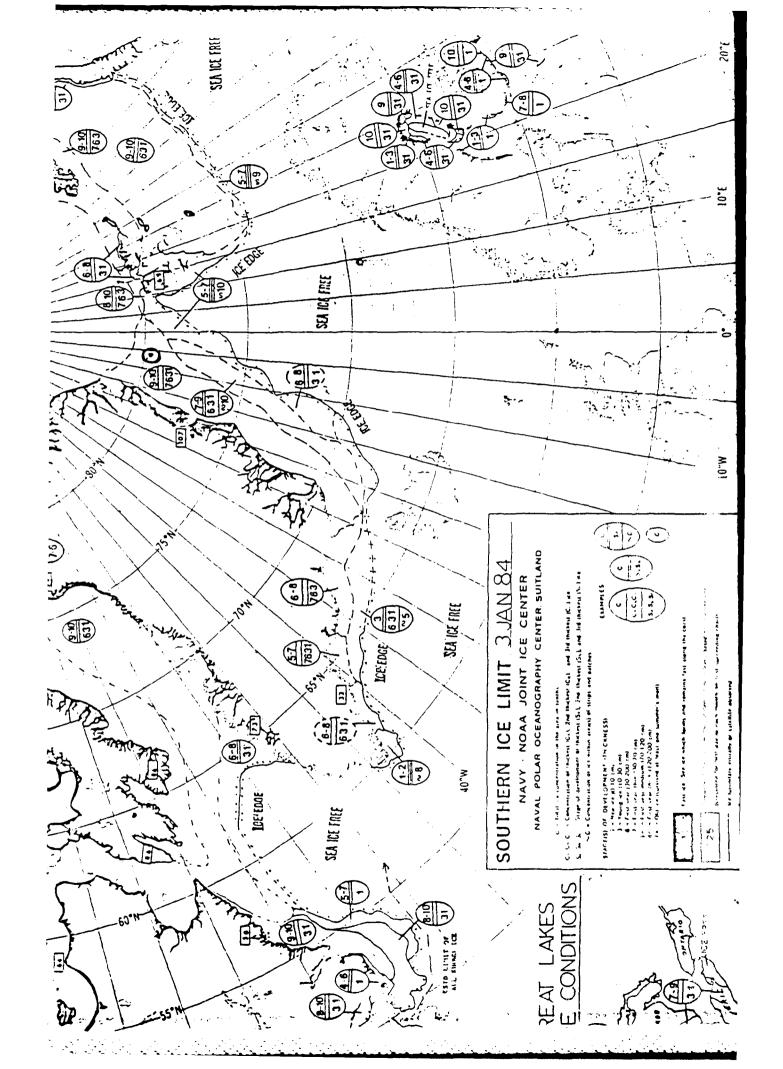
MONTH: 4-10 JAN 84 RUOY:

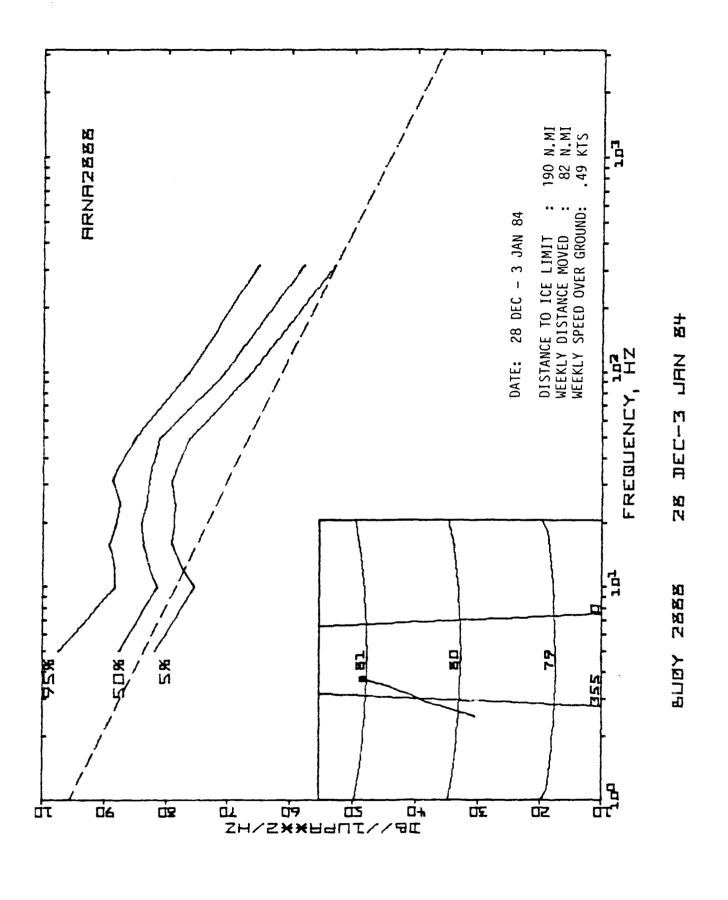
2888

OUTPUT IN FILE ARNA2838

DISPLACEMENT (N. MI.): 105.337 NORTH: -91.320 EAST: -52.503 DIRECTION (TRUE): 209.918

		STD				Σ						
DEV		Z Y Y		2%	10%	25%		75%	206			Z
8.3 78.0	73.0			81.8	82.6	84.7		90.1	105.0			in In
72.7	72.7			73.7	74.6	76.2	79.8	88 8	94.3	98.7	102.8	58
6.2 75.5	75.5		' '	76.2	77.6	78.7		89.0	91.8			S S
5.4 76.5	76.5		_	8.5	77.9	79.2		89,3	91.8			ត ព
4.4 76.0	76.0		~	6.7	78.7	79.2		က ကို	33,3			្រ ហ
3.6 77.2	77.2		~	0.0	78.6	80.5		85.3	87.5			មា មា
3.5 75.7	75.7		~	S. 00	79.3	79.9		34,5	87.2			ហ្វ
3.7 71.8	71.8		K	3.8	76.0	77.8		83.0	85.2			រា ព
3.9 71.2	71.2		1	1	74.4	76.2		81.1	34.2			515
4.8 61.6	61.6		62	φ.	63.4	66.1		73.6	76.4			រក ហ
5.5 49.4	49.4		49	4.	50, 1	51.4		60.7	64.0			56





MONTH: 28 DEC-3 JAN 84 BURY: 2888

CUTPUT IN FILE ARNAZ333

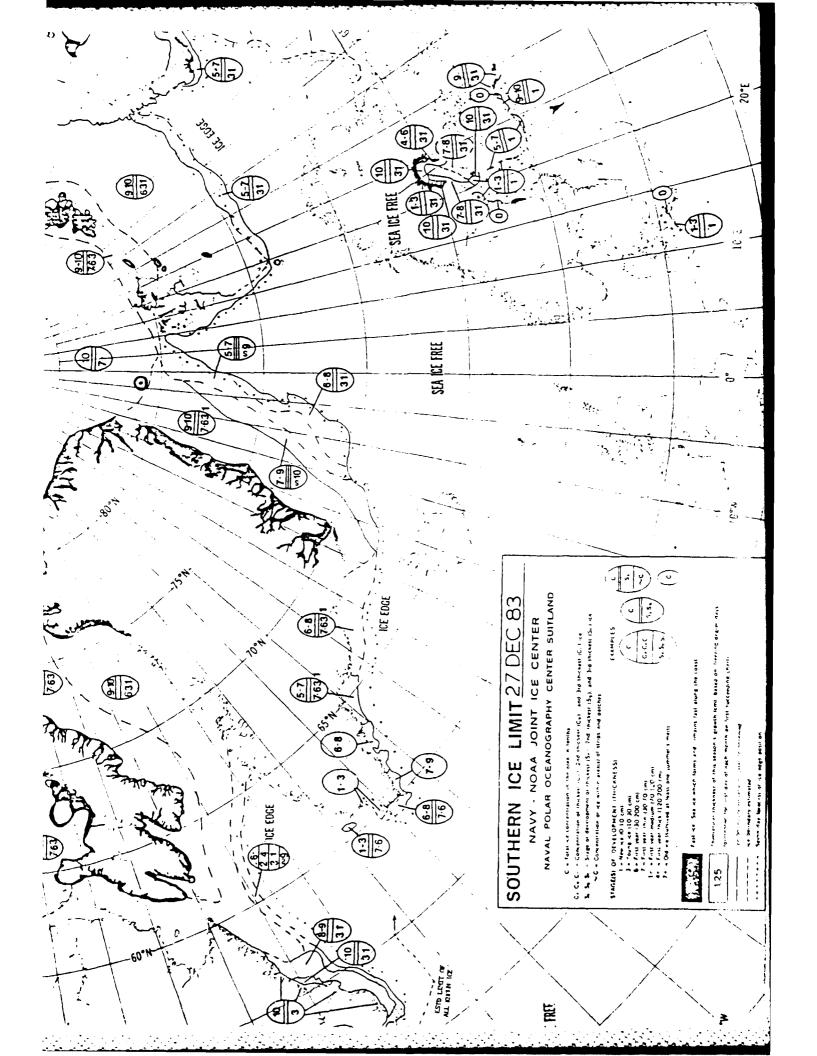
DISPLACEMENT (N. MI.): 82.232 NORTH: -79.740 EAST: -20.092 DIRECTION (TRUE): 194.162

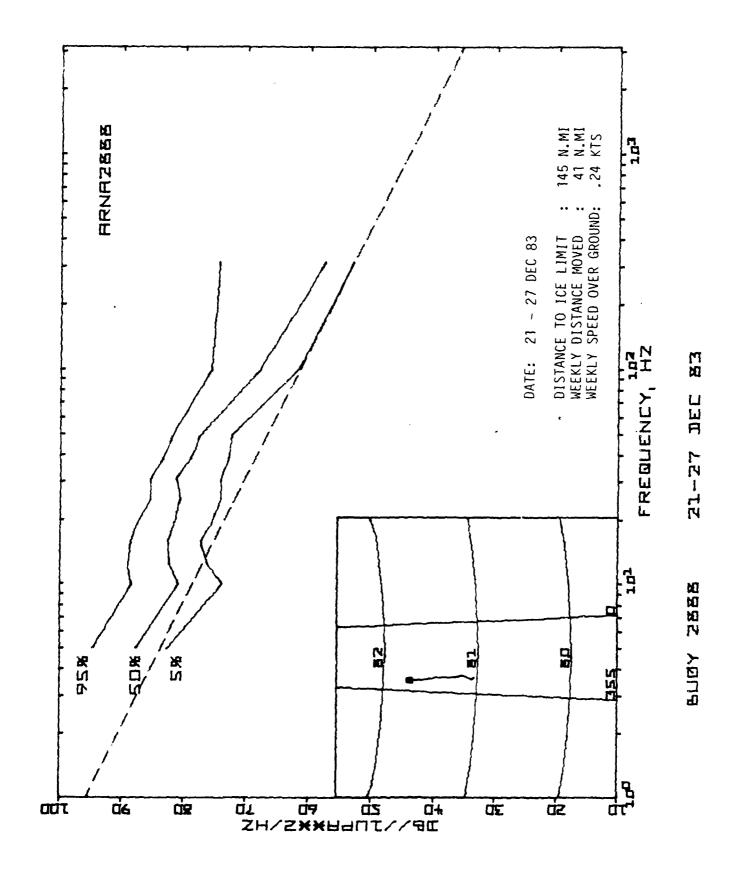
THE NUMBER OF DATA SAMPLES IS 56

	MAX	100.7	102.3 56	100.3	92.8	88.8	89.2	89.7	89.0	85.8	78.2	67.5	
	756	97.4	88.3	38.3	89.3	38.0	87.5	00° 00°	87.1	35.0	76.4	65.0	
	706	95.4	86.7	87.5	87.7	87.2	86.5	87.8	85.9	84.2	75.4	63,4	
	75%	92.9	84.8	35.8	86.8	85.3	Ø 100	8%.0	න ලියි	83.3	72.9	59.9	
MEDIAN	20%	87.8	81.5	82.9	83.9	.84.1	83.2	82.3	82.1	31.1	70.4	57.9	
Σ	25%	35.9	77.6	78.7	80.8	80.3	8 3.5	81.8	79.9	79.7	68,2	56.1	
	10%	34.1	76.9	78.7	79.7	79.2	79.9	80.6	78.5	77.2	66.9	53.9	
	% S	31.3	75.5	77.6	79.2	78.7	78.6	79.3	77.8	76.2	66.1	52.9	
	MIN	80.9	72.7	76.2	76.5	76.0	77.2	77.7	76.9	75.6	64.4	51.9	
STD	DEV	4 G	9.2	4.2	ന ന	3.2	2.9	2.9	2.8	2.7	9. 4	თ ო	
	AVG	89.3	81.7	82.9	83.9	83.4	83,3	83,8	82.3	31.1	70.8	53.4	
FREQUENCY	HZ	o.°	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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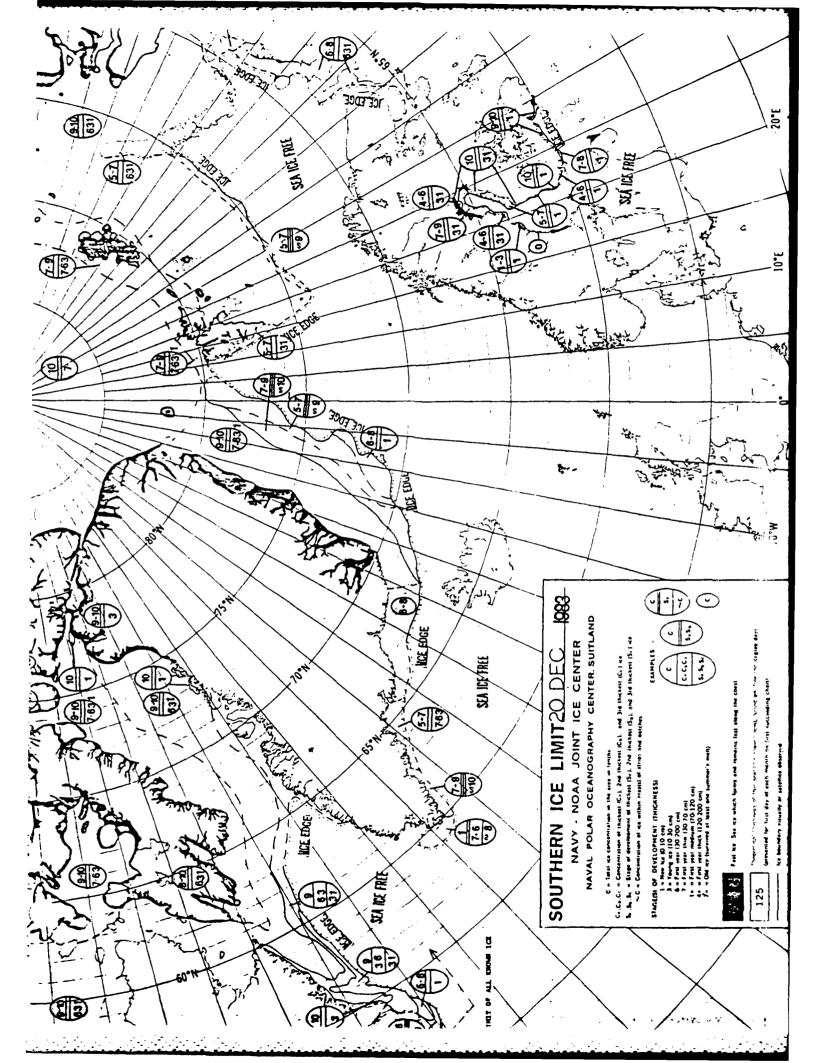
MONTH: 21-27 DEC 83 RUNY: 2888

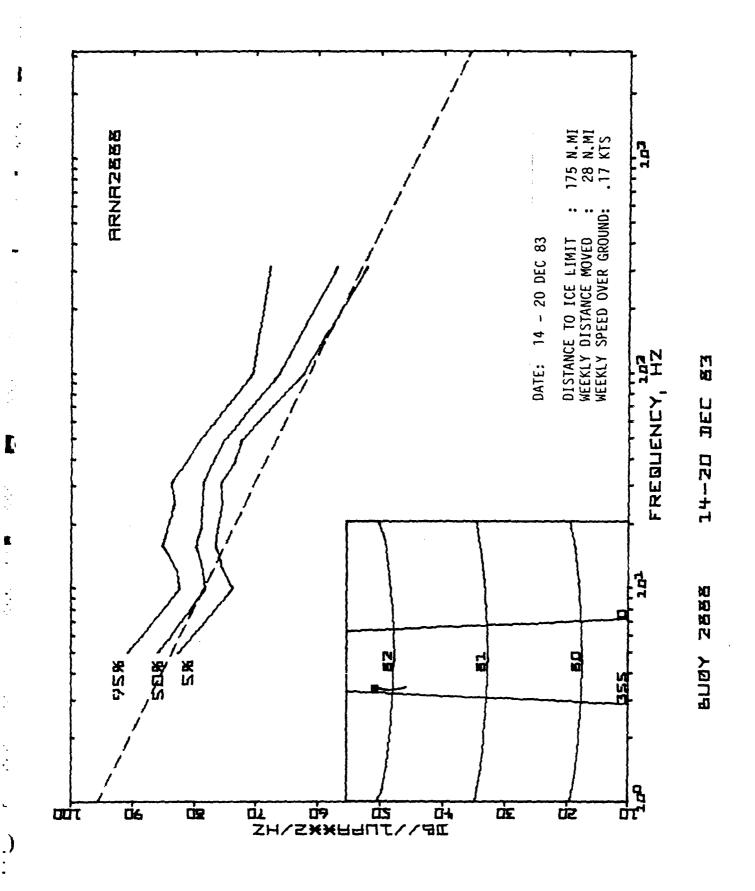
OUTPUT IN FILE ARNAZ888

3,332 DISPLACEMENT (N. MI.): 40.996 NORTH: -40.860 EAST: DIRECTION (TRUE): 175.355

THE NUMBER OF DATA SAMPLES IS 56

FREQUENCY		STD				Σ	EDIAN					
HZ	AVG	I'E'V	Σ		10%	25%	20%	75%	206	756	MAX	Z
5.0	83,4	4.2	31.3		33.4	6.00	87,8	90.1	91.9	24.7	106.7	99
10.0	80.3	4.7	71.5	73.7	74.6	6.97	80.7	82.9	84.8	ტ დ	94.3	95
12.5	81.8	0.4	72.7		77.6	78.2	32.3	84.2	36.7	89.0	80.8	90 10
16.0	82.6	တ က	73.7		78.6	79.2	82,5	02.5	86.8	හ. සුවු	90.06	V
20.0	81.4	დ ო	71.4		76.7	78.7	81.2	34.1	e. G	87.2	90.1	99
25.0	80.5	€ •	71.2		76.4	78.6	80.5	82.4	84.7	හ. මේ	87.5	٧. الا
31.5	80.4	% %	72.5		75.7	78.5	81.2	82,8	83.7	30°.0	36.6	38
40.0	78.4	ဝ က	70.0		74.4	76.0	78.5	80.5	82.1	83.0	84.6	90
50.0	76.9	3,2	69.6		73.0	74.4	77.2	79.7	30.4	81.7	84.2	56
100.0	67.9	4.1	59.3		63.4	64.4	67.6	70.4	72.9	75.4	77.3	28
315.0	59.2	6.1	43.4		53.9	56.1	57.4	60.7	6.39	74.2	78.8	90
STOP												





MONTH: 14-20 DEC 83 BUOY: 2888

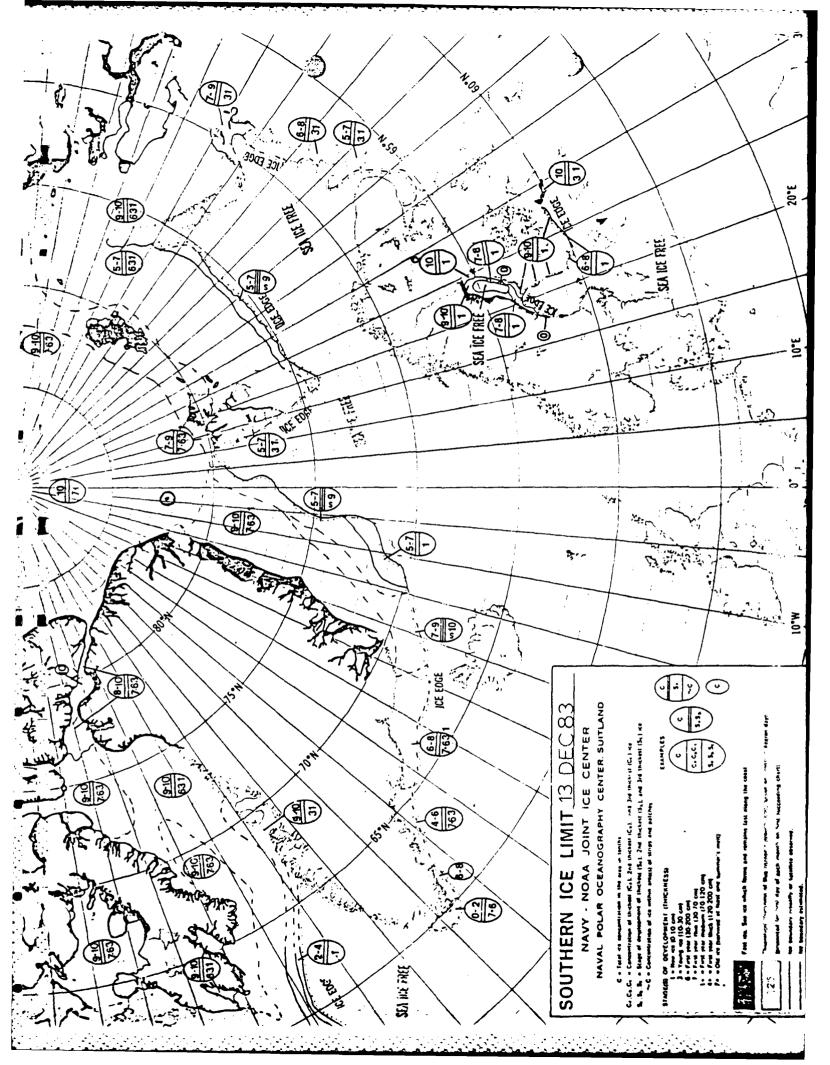
DUTPUT IN FILE ARNA2838

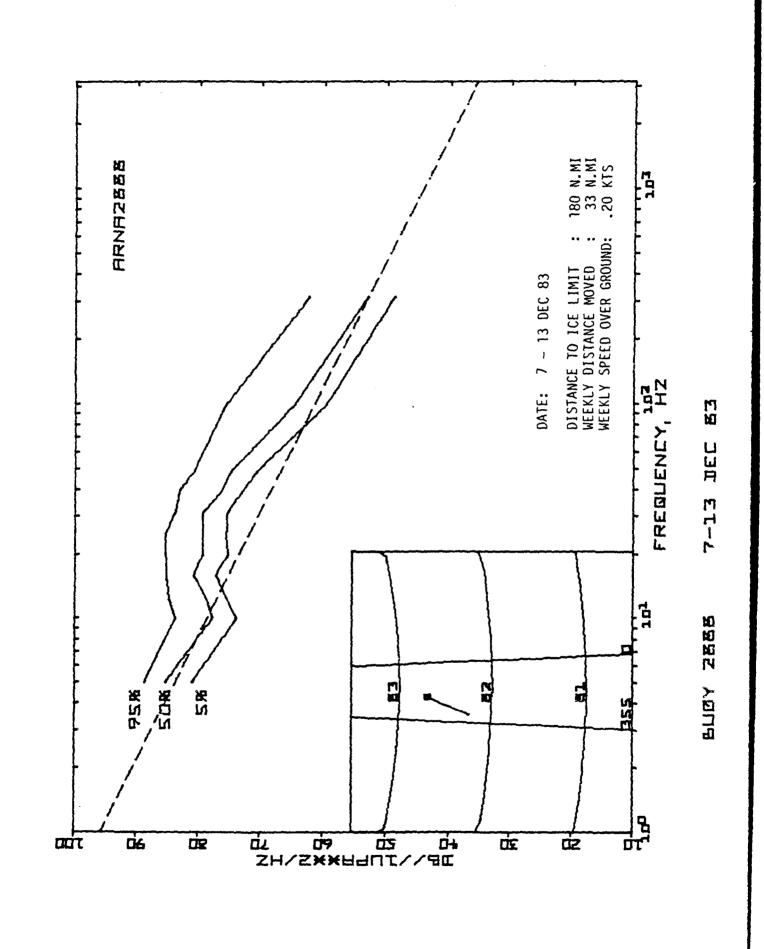
3.532 DISPLACEMENT (N. MI.): 28.420 NORTH: -28.200 EAST: DIRECTION (TRUE): 172.877

THE NUMBER OF DATA SAMPLES IS 54

	z	56	50	56	55	56	28	26	56	56	36	56	
	MAX	90.7	83.6	84.8	85.8	85.3	84.7	86.0	84.6	80.4	73.6	70.0	
	756	90.7	82.3	82.9	85.2	84.1	83.2	83.7	81.0	79.0	70.4	67.5	
	206	89.4	81.5	82,3	83.9	82.0	81.5	85.8	79.9	78.1	70.4	61.5	
	75%	83.6	79.8	30.7	81.7	80.3	80.5	79.9	77.8	76.2	68.2	57.9	
DIAN	50%	85.9	78.2	78.7	79.7	78.7	78.6	78.5	76.9	75.0	66.1	56.8	
Ξ	25%	34.1	76.2	77.6	78.6	77.4	77.2	76.8	75.0	73.7	64.4	53.9	
	10%	35.6	74.6	76.9	77.2	76.0	75.5	76.8	73.8	73.0	63.4	52.9	
	2%	82.6	73.7	75.5	76.5	76.0	75.5	75.7	73.2	72.1	62.2	51.9	
	ΣIN	80.9	72.7	75.5	74.7	74.2	74.4	74.6	70.0	71.2	61.6	50.1	
STD	DEV	2.5	2.7	2.3	2.6	2.4	2.4	2.4	2.6	2.0	2.6	4.4	
•	AVG	86.2	77.9	79.3	80.1	79.0	78.8	79.0	76.8	75.2	66.6	57.4	
FREQUENCY	ZH	5.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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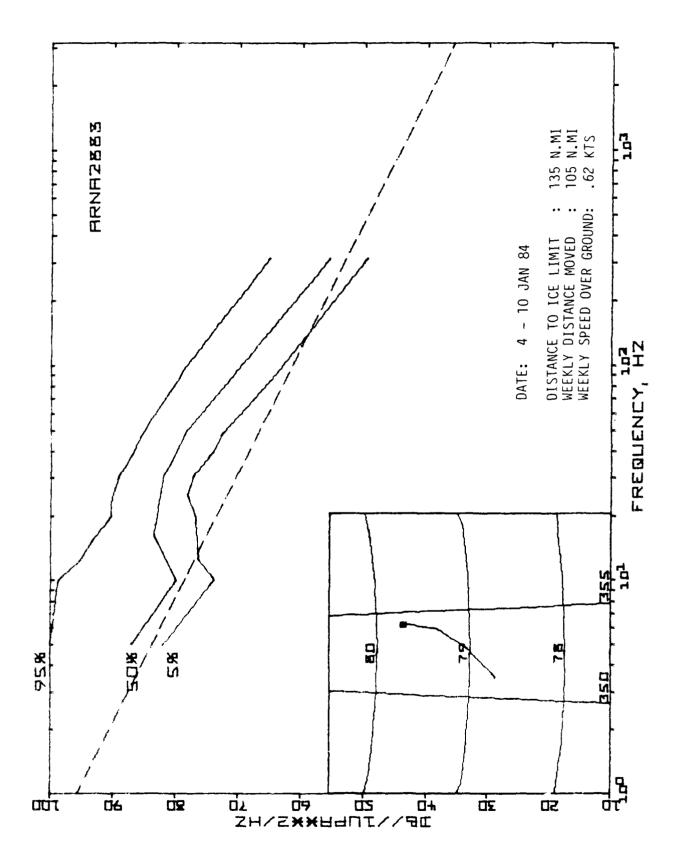
MONTH: 7-13 DEC 83 BUOY: 2888

OUTPUT IN FILE ARNA2888

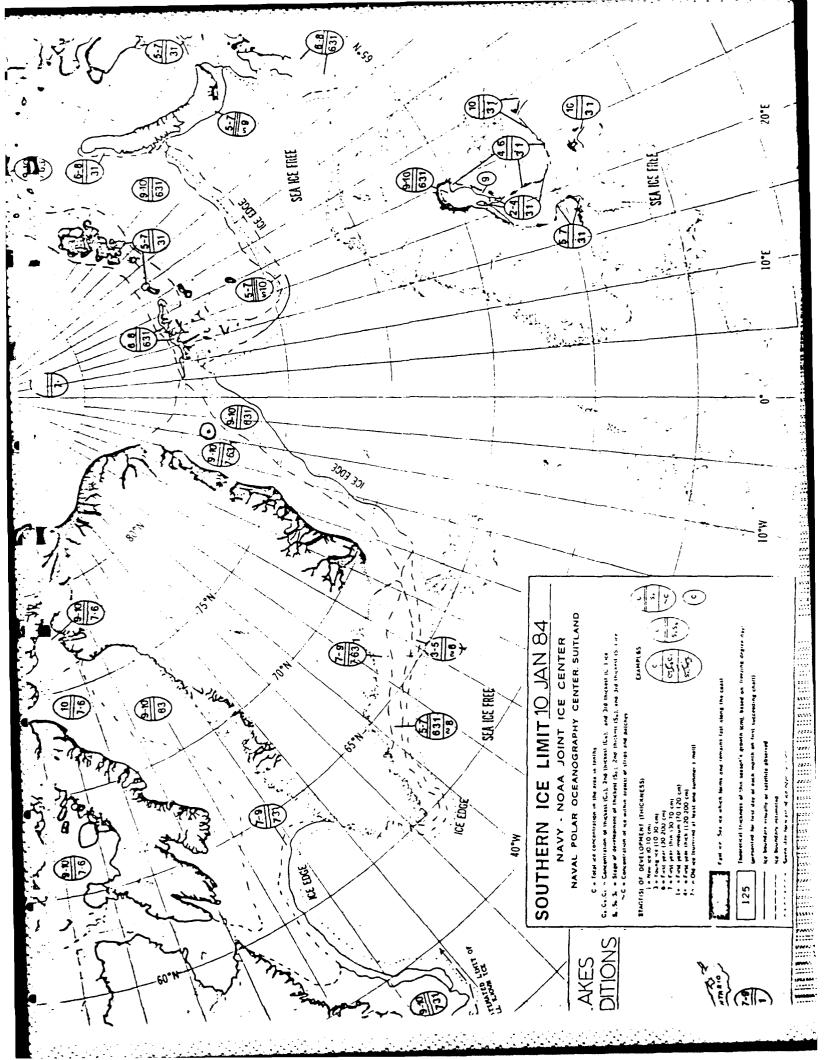
DISPLACEMENT (N. MI.): 33.051 NORTH: -30.300 EAST: -13.201 DIRECTION (TRUE): 203.563

	2	. Y) \) (S	\) -4 (c)) () (C) (C	ď) V	ָרָ נייל	e D
	MAX	96.89	000	39.6	89.3	90.7	0.10	92.6	0.63	ν γ ₀		707	
	756	33.	83.6	84.8	85.2	85.3	85.3	83.7	83.0	00.00	75. 4	000	7
	%06	87.8	81. 10.	82.9	84.6	84.7	84.7	82.8	82.1	79.7	72.0	100	•
	75%	86.9	78.7	80.7	82.5	82.0	80 10	80.6	79.9	76.2	48.7	2,45	
4FD1AN								79.3					
Σ	25%	83.4	76.2	78.2	79.2	73.1	77.2	77.7	75.0	73.0	61.6	50.8	
								75.7					
	2%	80.9	73.7	75.5	77.2	75.1	75.5	75.2	72.5	70.2	59,3	48.7	
	ZΙΣ	80.9	72.7	74.6	75.6	73.2	73.9	73.2	70.9	0.69	57.3	47.8	
STD	DEV	2.6	2.9	2.9	2.6	ი ი	3,4	ო ო	3.5	3.4	5.5	4.8	
	AVG	85,3	78.0	79.5	81.0	80.2	79.9	79.4	77.3	75.0	65.8	53.9	
FREQUENCY	HZ	5.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

DATA BY WEEKS



BUDY ZEBE 4-10 URN 84

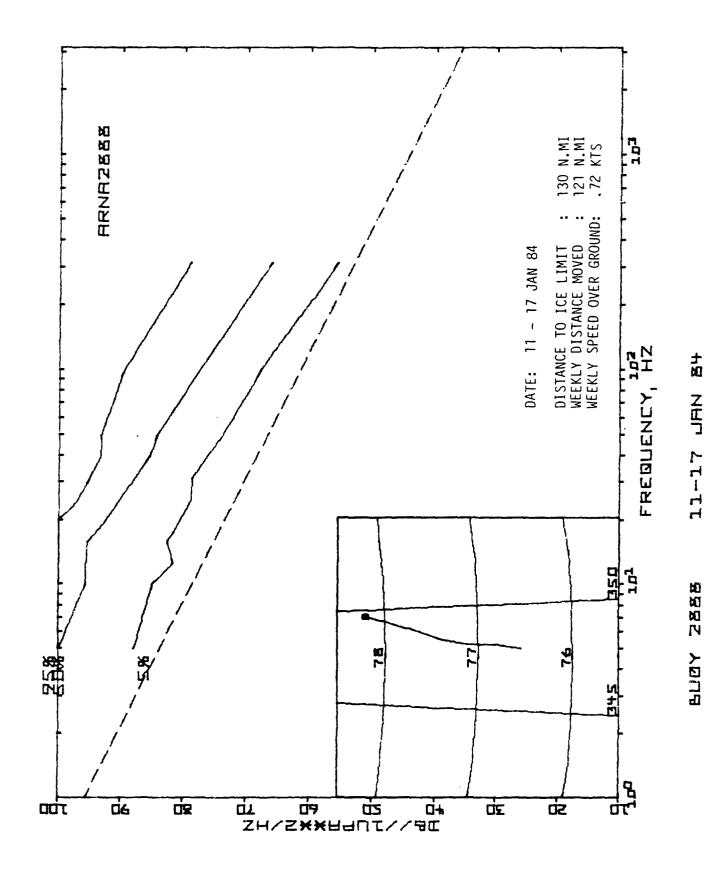


MONTH: 11-17 JAN 84 RUOY: 2888

CUTPUT IN FILE ARNAZSSS

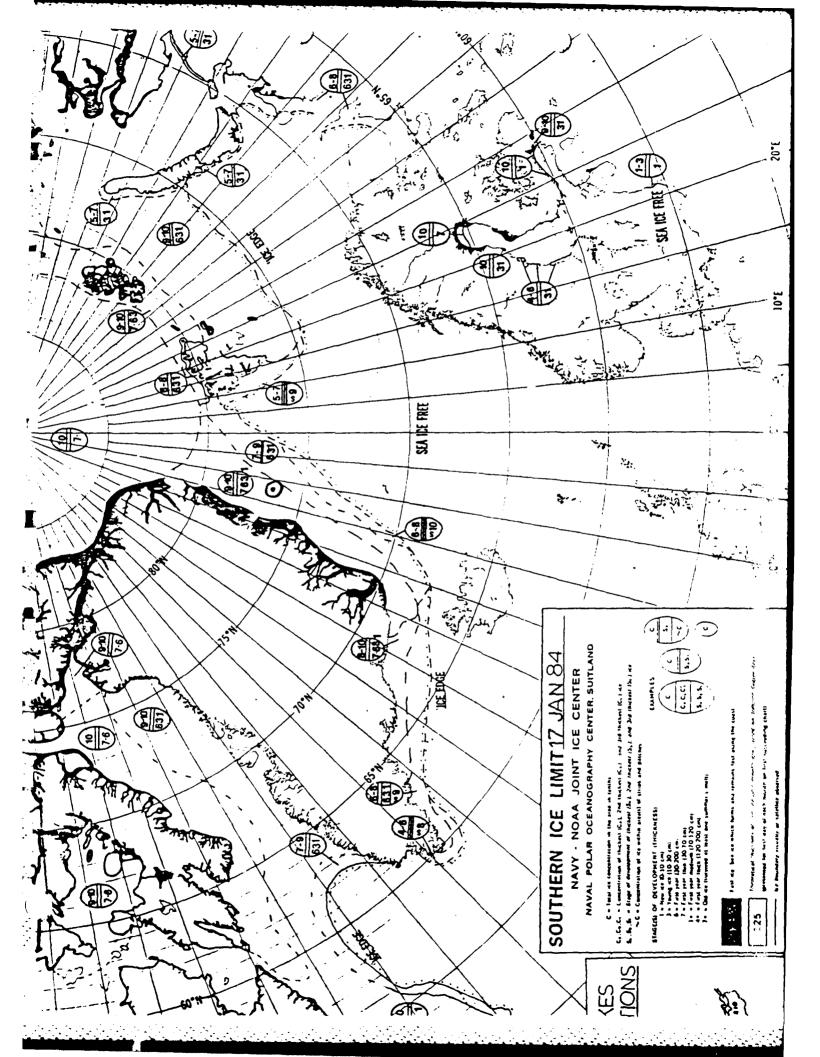
DISPLACEMENT (N. MI.): 121.201 NORTH:-117.780 EAST: -28.595 DIRECTION (TRUE): 193.666

FREGUENCY		STD				Σ	MEDIAN					
Н7	AVG		MIN	% 9	10%	25%					MAX	Z
5.0	9.66		86.9	87.8	39.4	6.16				•	110.0	را د
10.0	95.4	6.9	79.8	84.8	84.8	89.6	92.6	102.3	102.8	103,8	104.8	26
12.5	7.46		79.8	31.5	35.3	90.2				-	103.8	\$6 6
16.0	94.1		79.2	82.2	0 1 0	90.0					103.8	99
20.0	91.7		75.1	80.3	82.8	87.2				-	101.5	90
25.0	89.6		75.5	78.6	81.5	က (၈)					97.4	56
31.0	33.3		73.2	78.5	79.9	34.5					96.6	99
40.0	85.3		70.9	76.0	77.8	82.1					95.0	99
50.0	34.4		69.0	73.7	75.6	80.4					94.3	26
100.0	78.0		58.4	67.6	68.7	72.9					91.0	95
315.0	67.4		47.8	55.4	56.8	61.5					84.0	26
STOP												



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BUOY ZEEB



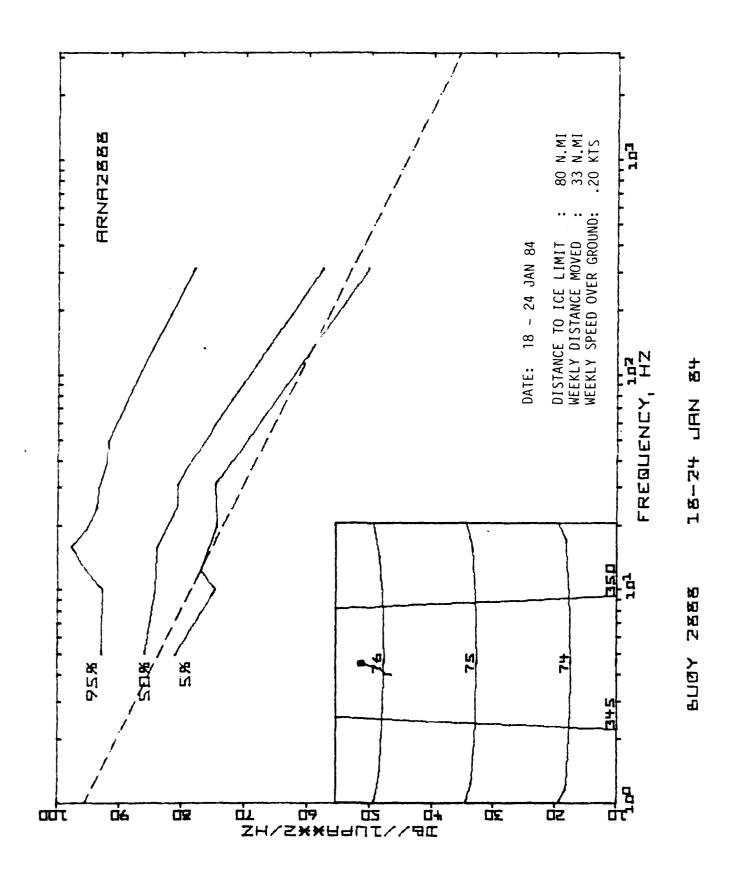
MONTH: 18-24 JAN 84 RUOY: 2888

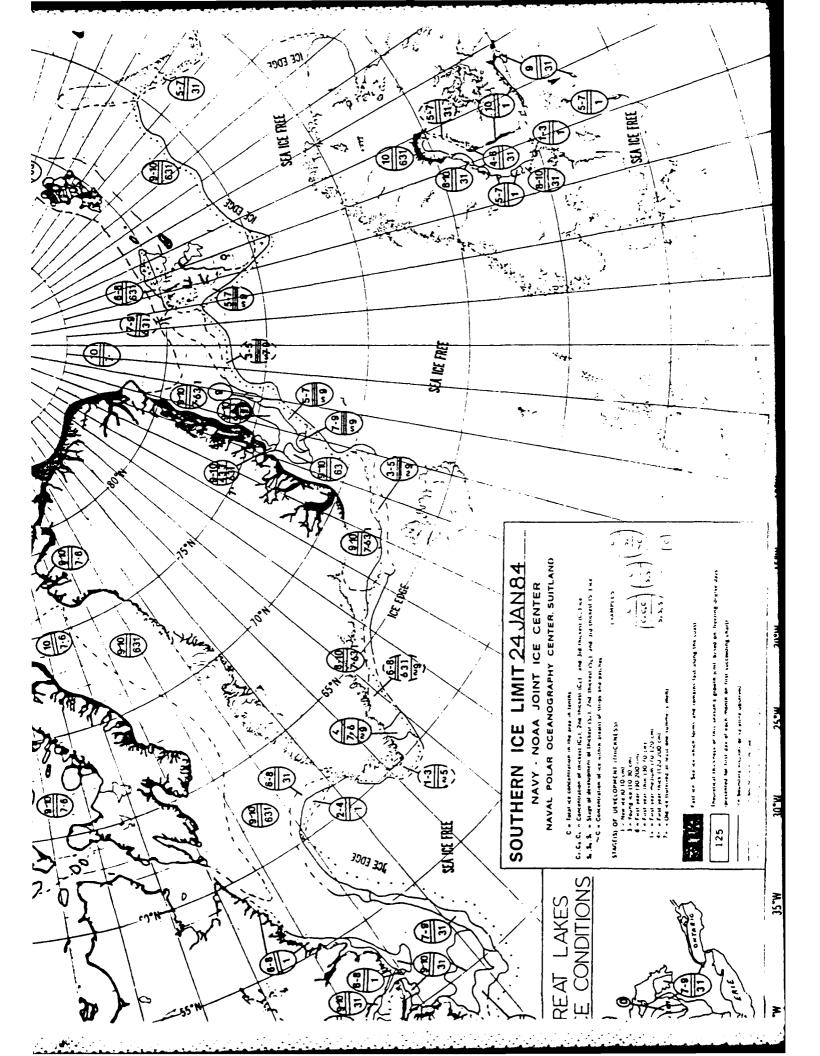
OUTPUT IN FILE ARNAZABB

DISPLACEMENT (N. MI.): 33.196 NORTH: -31.860 EAST: DIRECTION (TRUE): 196.330

THE NUMBER OF DATA SAMPLES IS 56

	Z	56	58	56	26	56	56	55	38	56	55	35	
	MAX	93.9	101.7	102.8	103.8	100.8	97.4	96.6	97.3	95,3	91.0	82.0	
	95%	92.9	92.7	95.6	97.8	94.8	93.5	93.2	91.9	91.8	86.9	77.9	
	%06	90.7	92.7	90.8	91.8	91.3	88.4	88.8	83.8	82.2	76.4	72.8	
	75%	38.6	89.0	87.5	87.7	87.2	85.9	83.7	82.1	79.7	72.9	66.7	
MEDIAN	50%	85.9	84.2	84.2	83.9	82.0	80.5	30.6	78.5	76.2	69.4	57.4	
Ξ	25%	83.4	78.7	79.8	79.7	78.1	0.37	77.7	75.0	74.4	66.1	51.4	
	10%	81.3	76.2	77.6	77.9	76.7	76.4	75.7	73.8	72.1	65.3	50.3	
	3%	80.9	74.6	76.9	75.6	74.2	74.4	74.6	71.8	9.69	62.2	50.1	
	MIN	77.4	72.1	74.6	73.1	70.7	71.9	70.7	70.0	67.7	60.1	46.9	
STD	DEV	4.3	6.5	6.1	6.7	6.5	5.7	ທ ທ	را د	က ထ	6.9	9.4	
						83,1							
FREQUENCY	ZH	3,0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP



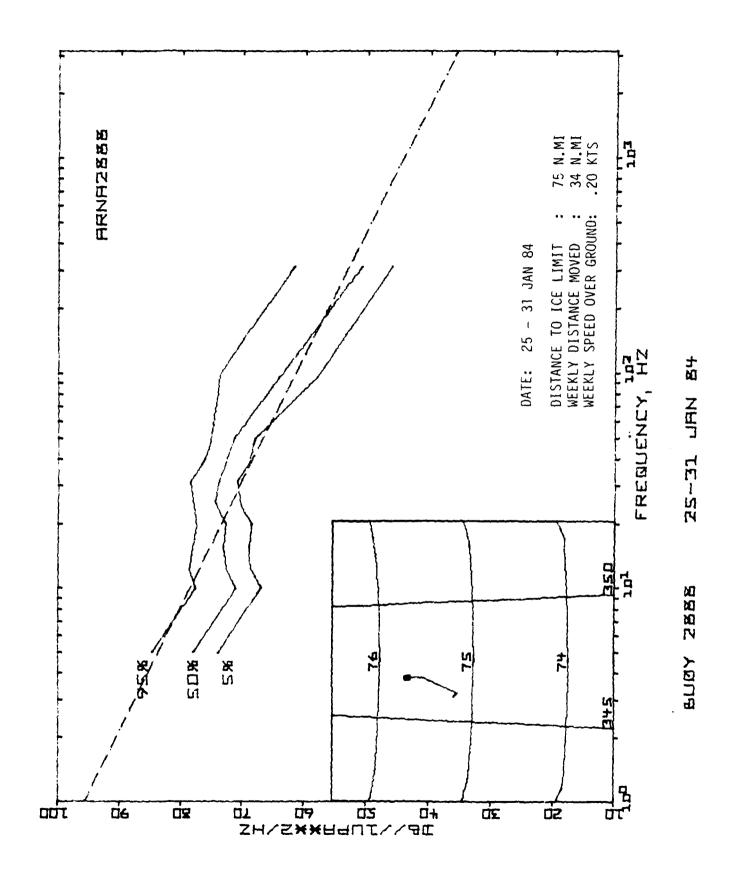


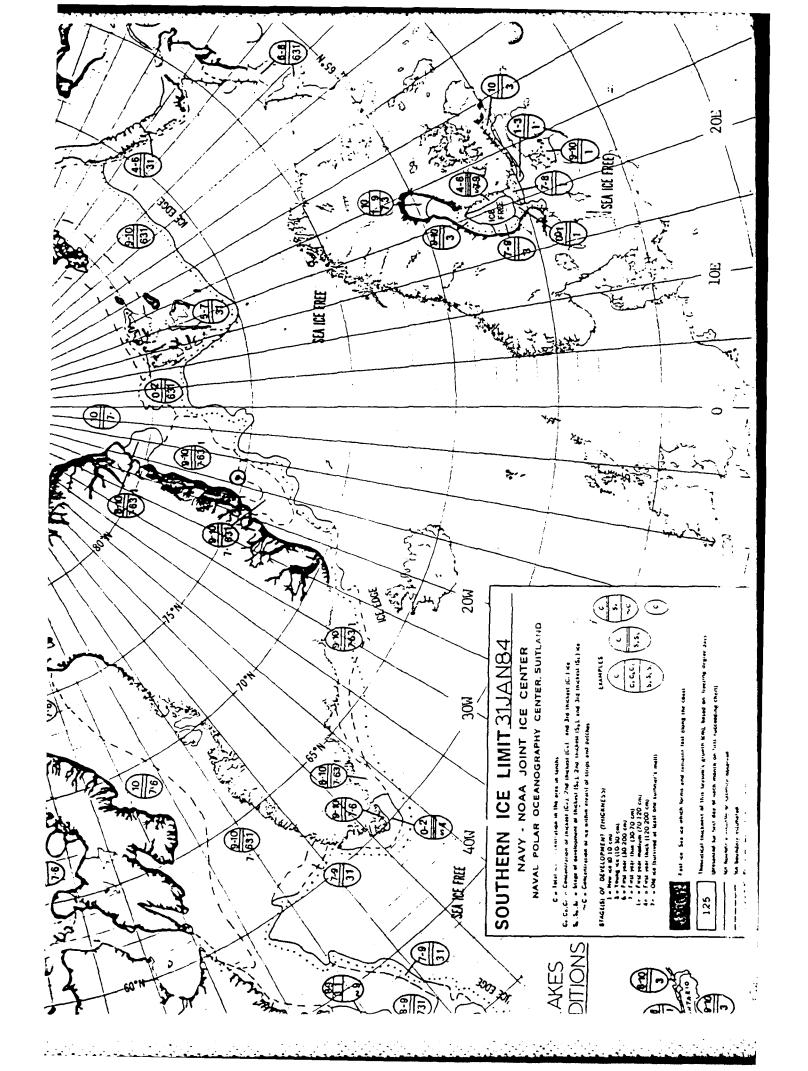
MONTH: 25-31 JAN 84 RUOY: 2888

OUTPUT IN FILE ARNA2838

DISPLACEMENT (N. MI.): 34.485 NORTH: -31.560 EAST: -13.899 DIRECTION (TRUE): 203.790

	z	26	99	ហ ហ	9 10	26	99	99	90	92	មា មា	26	
•	MAX	90.1	79.8	79.8	79.2	78.7	79.9	85. 82.	78.5	79.0	74.2	73.5	
	756	84.7	77.6	78.7	77.9	77.4	0.37	78.5	76.0	75.0	73.6	61.5	
	706	83.4	76.2	77.6	77.2	77.4	77.2	77.7	76.0	74.4	67.6	29.9	
	75%	79.9	73,7	74.6	75.6	75.1	76.4	75.7	74.4	73.7	65.3	54.7	
JED I AN	20%	78.0	70.9	72.7	73.1	72.6	74.4	73.9	72.5	71.2	63.4	50.8	
Ξ	25%	75.8	69.5	70.9	71.2	70.7	72.6	73.2	70.9	9.69	62.8	47.8	-
	10%	73.8	68.6	2.69.	9.69	69.1	71.2	70.7	0.69	68.4	59.3	45.9	
	2%	73.8	66.7	63.6	68.7	68.2	70.3	70.7	68.4	67.7	57.3	45.9	
	ΣIN	71.3	65.5	67.7	67.7	68.2	69.4	69.7	67.8	6.99	96.0	45.3	
STD	DEV	3.6	9.4	3.2	2.9	2.9	2.4	2.7	5.5	2.5	4.0	6.1	
									72.5				
FREQUENCY	HZ	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





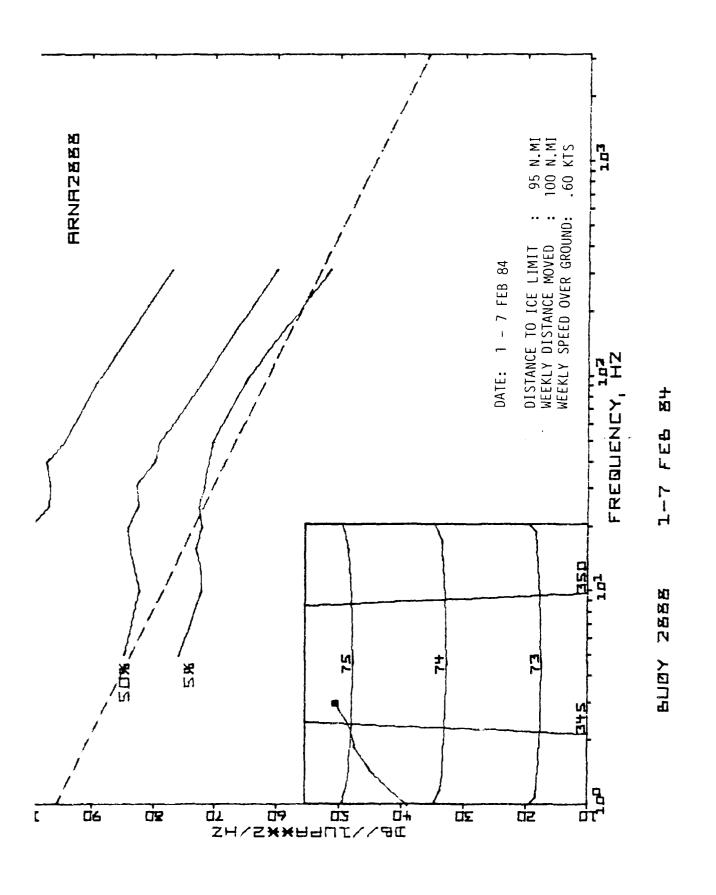
MONTH: 1-7 FEB 84 BUCY:

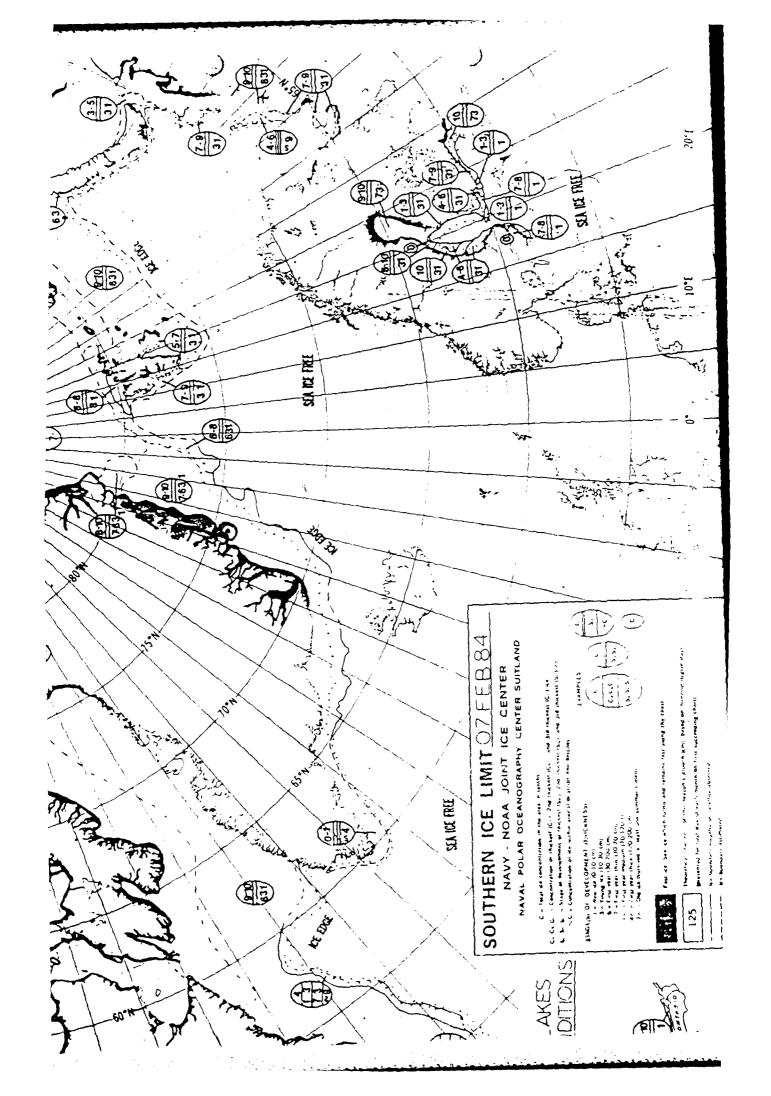
2888

OUTPUT IN FILE ARNAZSAS

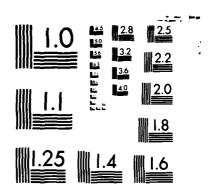
DISPLACEMENT (N. MI.): 99.576 NORTH: -67.380 EAST: -73.317 DIRECTION (TRUE): 227.442

	z	ភ	25	52	52	0 0	3 1 1 1	55	25	55	52	52	
	MAX	109.4	102.8	103.8	104.8	103,3	98.0	97.3	99.1	99.1	92.3	34.0	
	756	103.4	93.6	93.6	29.7	100.8	26.7	36.6	87.3	94.3	88 88	77.0	
	206	101.4	8.96	92.6	91.8	20.7	91.9	95.0	87.1	88.3	86.3	73.5	
	75%	6.26	87.5	88.3	88°.	87.2	86.5	87.2	83°0	82.2	75.4	64.0	
MEDIAN	20%	34.7	82.3	82.9	83.9	84.1	82.4	87.8	79.3	79.0	71.3	59.9	
Σ	752	79.9	73.7	76.9	77.2	76.0	76.4	75.7	74.4	73.7	67.6	56.1	
	10%	76.6	72.7	72.7	73.7	72.6	73.3	73.2	71.8	70.2	65.3	53.9	
	2%	75.8	72.1	72.1	73.1	72.0	72.6	71.6	70.9	70.2	64.4	51.4	
	ZΙ	74.9	68.6	70.9	72.5	71.4	71.9	71.6	70.0	9.69	85.8	43.4	
STD	DE.V	9.6	9.1	ი ი	8.4	3,2	7.1	7.1	7.3	7.4	7.3	7.6	
	AVG	87.3	82.7	83.7	84.2	83.0	82.7	82.3	80.2	79.3	73.1	61.4	
FREQUENCY	ZH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





LONG TERM STATISTICAL MEASUREMENTS OF ENVIRONMENTAL ACOUSTICS PARAMETERS I. (U) POLAR RESEARCH LAB INC CARPINTERIA CA B M BUCK ET AL. 13 DEC 84 PRL-TR-53 AD-A156 818 5/7 UNCLASSIFIED NL



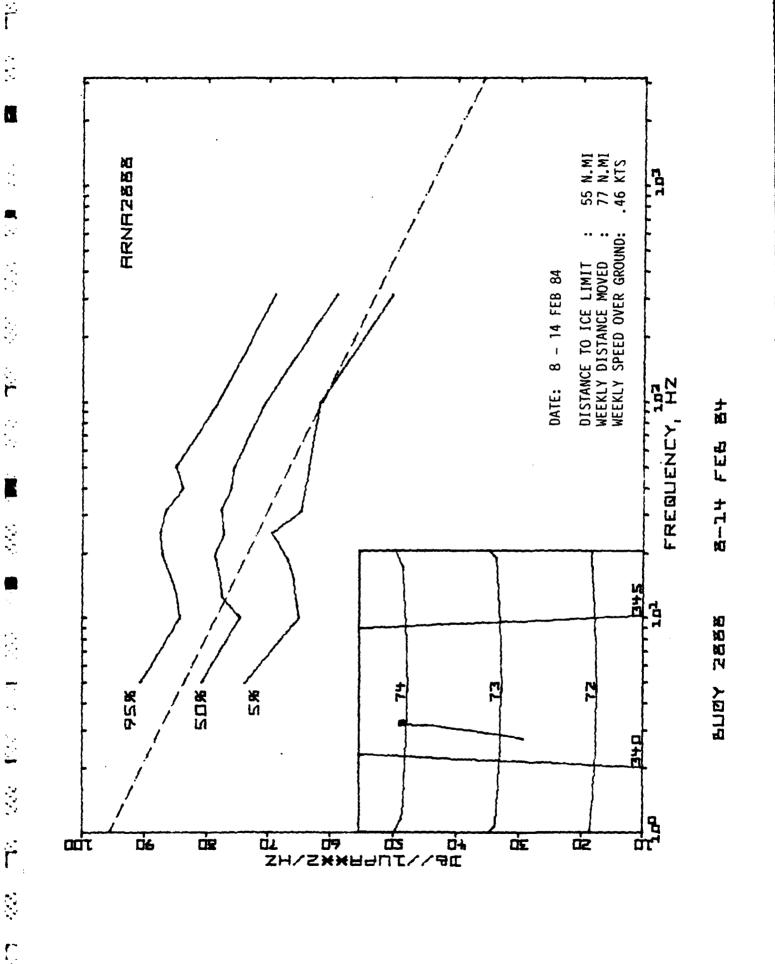
MICROCOPY RESOLUTION TEST CHART
NATIONAL RUREAU OF STANDARDS-1963-A

MONTH: 8-14 FEB 84 BUDY: 2888

CUTPUT IN FILE ARNA2888

-8.231DISPLACEMENT (N. MI.): 77.240 NORTH: -76.800 EAST: DIRECTION (TRUE): 186.135

FREQUENCY	•	STD				Σ	MEDIAN					
Ή	-	DEV	ZIZ	2%	10%	25%		75%	206	756	MAX	Z
့	81.5	6.0	58.7	73.8	73.8	77.4		85.3	88.6	7.06	93.8	C
10.0	74.7	6.5	63.6	64.9	65,5	47.7	74.6	78.7	83.6	84.2	85.8	0
12.5	76.1	6.4	64.2	65,5	66.7	69.5		80.7	83.6	34.8	86.7	្រ ព
16.0	76.8	€.	65.2	62.9	67.1	70.5		80.0	85.8	00°00°	က တို့	8
20.0	77.7	6.5	64.1	67.2	70.0	72.6		82.0	86.3	87.2	90.1	00
25.0	77.9	5.7	65.3	69.4	71.2	73.3		82.4	85.9	87.5	89.2	ម ព
31.5	77.6	6.4	63.7	64.5	69.7	72.5		81.2	85.3	86.6	90.5	រ ម្ចា
40.0	75.6	6.0	63.8	64.0	69.0	70.0		79.9	83.0	83.8	88.1	55
50.0	75.0	6.1	61.7	63.3	66.1	71.2		79.7	81.7	85.0	86.4	្រ ប
100.0	69.7	6.0	55.4	61.6	62.2	64.4		73.6	76.4	78.2	82.5	្សា
315,0	53.8	n n	43.4	50.1	50.8	56.1		61.5	65.0	68.89	71.9	i)
STOP												

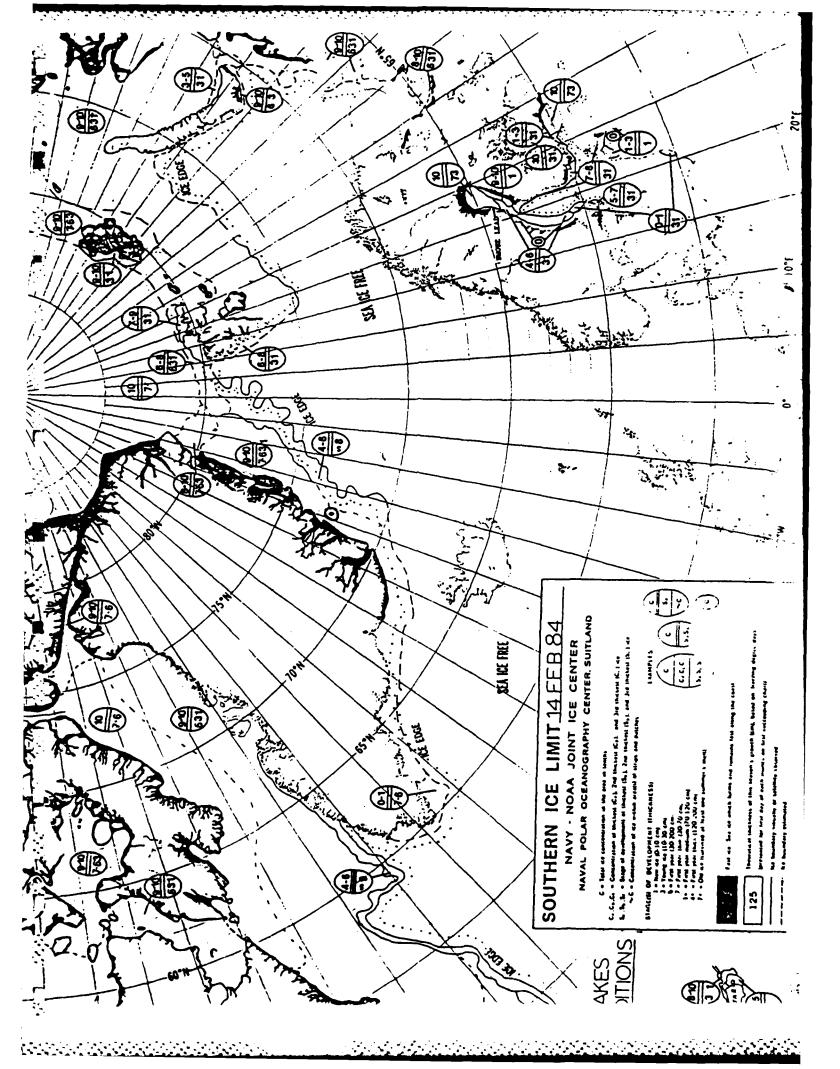


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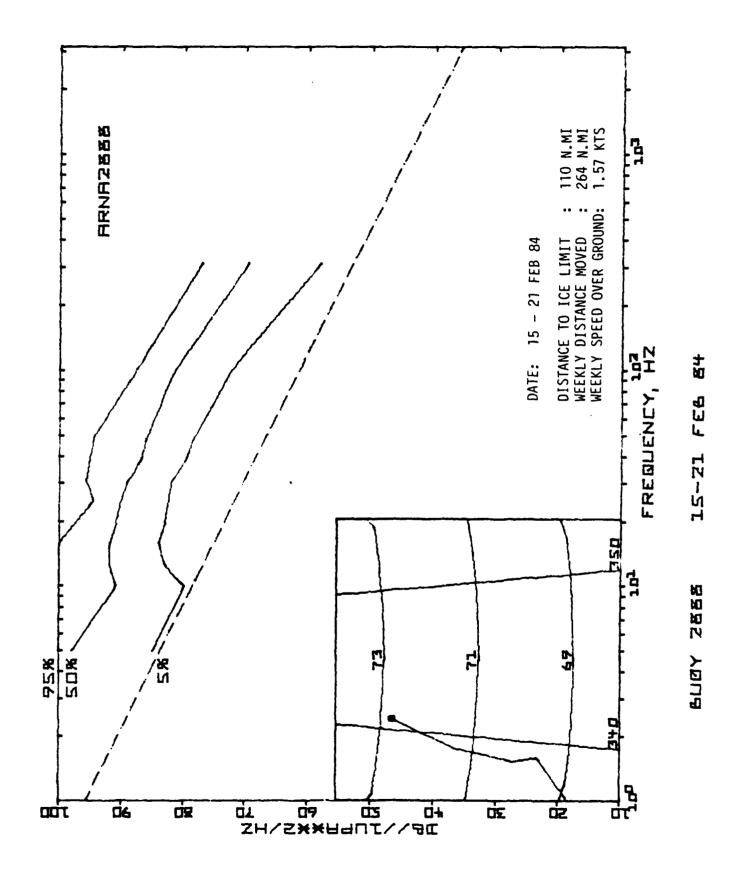
MONTH: 15-21 FEB 84 BUOY: 2888

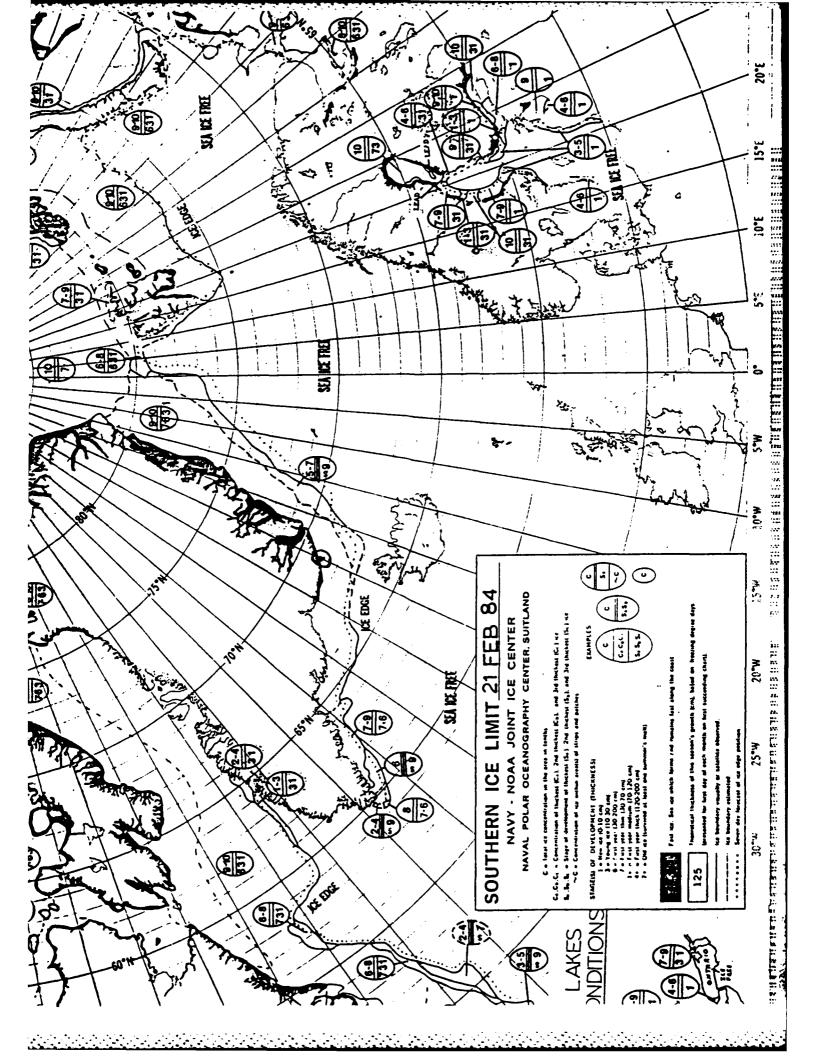
OUTPUT IN FILE ARNAZ988

DISPLACEMENT (N. MI.): 264.055 NORTH:-244.680 EAST: -99.280 DIRECTION (TRUE): 202.106

THE NUMBER OF DATA SAMPLES IS 56

FREGIJENCY		STD				Σ	MEDIAN					
ZH		DEV	NIN	2%	10%	25%		75%	206	95%	MAX	z
5.0	98.1	ი ე	79.9	84.7	86.9	90.7		106.7		٠.	110.0	56
10.0	92.8	7.9	76.9	79.8	82.3	86.7	90.8	9.66	102.8	105.6	107.0	56
12.5	92.4	6.1	79.8	82.9	84.8	88.3		96.8		٠.	102.8	56
16.0	92.2	4.8	79.2	83.9	85.8	89.3		96.0			100.6	36
20.0	90.6	4.3	80.3	85.8	84.1	38.0		93.2			100.1	54
25.0	89.2	ი 8	79.9	82.4	83.2	87.5		91.3			7.96	28
31.5	88.4	4.0	79.9	31.8	87.8	86.0		90.5			9.96	01 10
40.0	86.4	4.4	76.9	79.2	81.0	83.0		89.0			9.96	56
50.0	85.4	4.6	76.2	78.1	79.7	82.2		88.3			95.3	5
100.0	80.6	4.9	71.3	72.2	73.6	76.4		84.2			89.4	56
315.0	68.4	6.2	55.4	57.9	59.0	62.8		73.5			79.5	26
STOP												





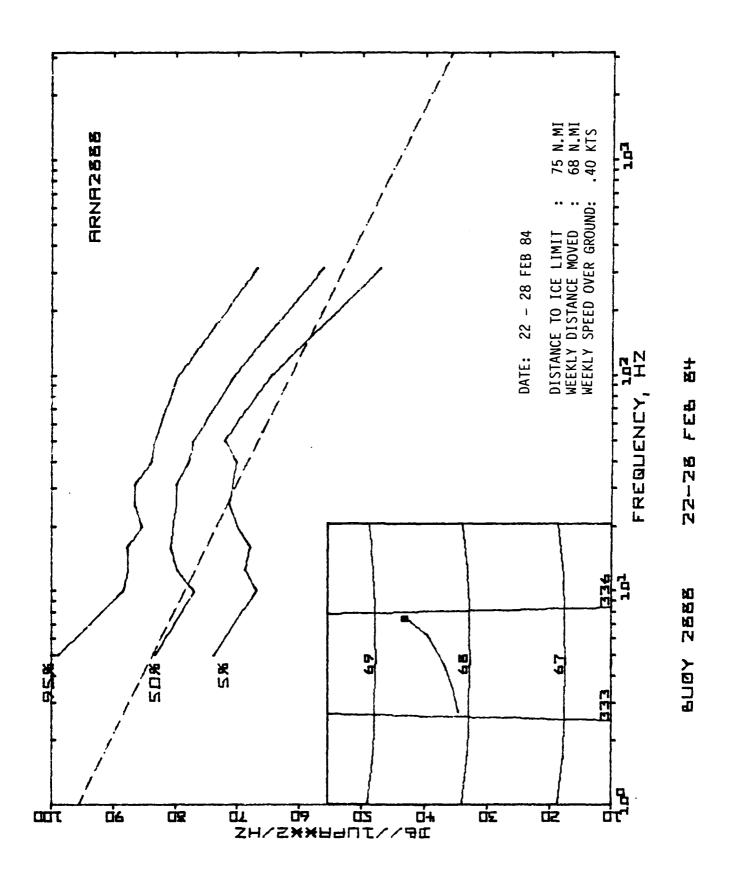
MONTH: 22-28 FEB 84 BUOY: 2888

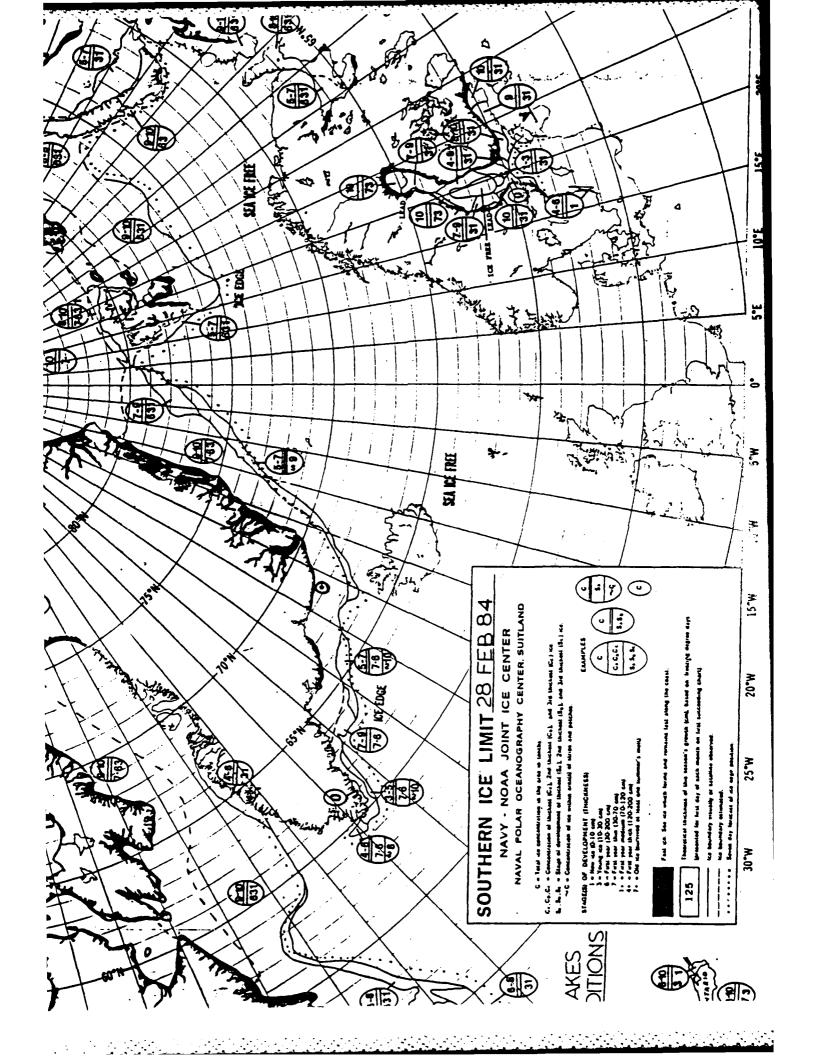
OUTPUT IN FILE ARNA2888

DISPLACEMENT (N. MI.): 68.320 NORTH: -34.800 EAST: -58.792 DIRECTION (TRUE): 239.406

THE NUMBER OF DATA SAMPLES IS 47

	z	47	46	47	46	47	47	46	47	46	47	47	
	MAX	108.1	100.3	107.7	92.8	90.7	90.0	87.8	87.1	85.0	80.3	68.2	
	95%	93.9	88.3	87.5	87.7	85,3	86.5	86.6	83.8	83.3	79.6	66.7	
	206	97.9	86.7	82.8	82.8	85,3	85.3	84.5	83.0	83,3	78.9	63.4	
	75%	87.8	82.3	82.9	84.6	82.8	83.2	85.8	81.0	79.7	75.4	59.9	
MEDIAN	20%	83.4	76.9	79.8	80.8	80.3	79.9	. 6.61	77.8	77.2	70.4	56.1	
黑	25%						77.2						
							74.4						
	5%	73.8	66.7	9.89	67.7	70.0	71.2	70.7	70.0	72.1	64.4	46.9	
	ZΙΣ						69.4						
STD	DEV	7.7	6.7	7.1	ນ ໝ	4.6	4.3	4.1	4.0	ი ი	4.8	5.9	
••		85,3	78.5	80.4	80.5	80.2	80.0	79.9	78.3	77.6	71.7	56.1	•
FREQUENCY	ZH	5.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





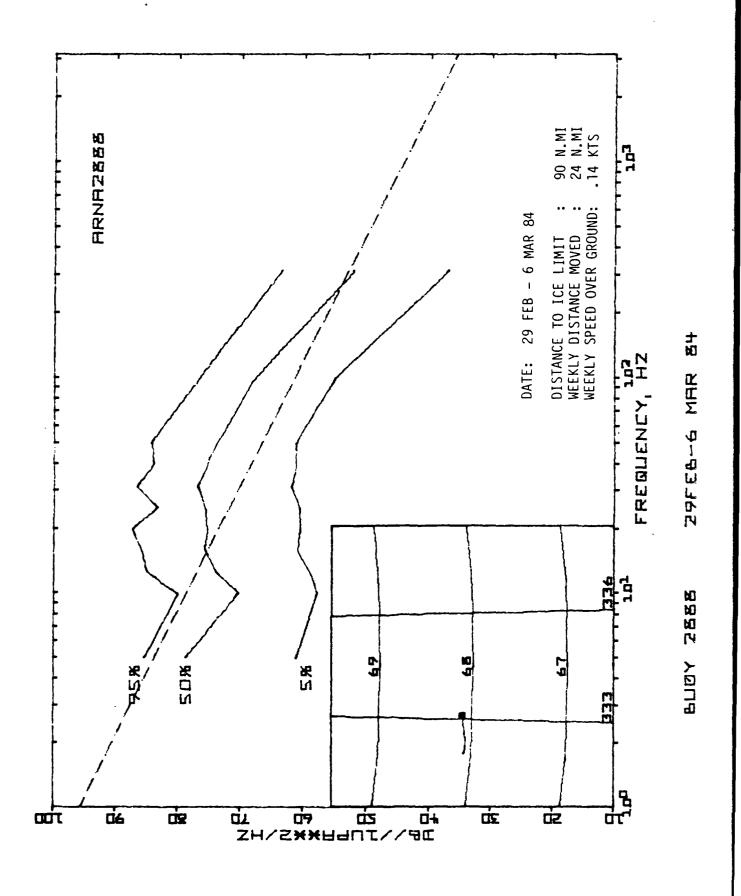
MONTH: 29FEB-6 MAR 84 BLIOY: 2888

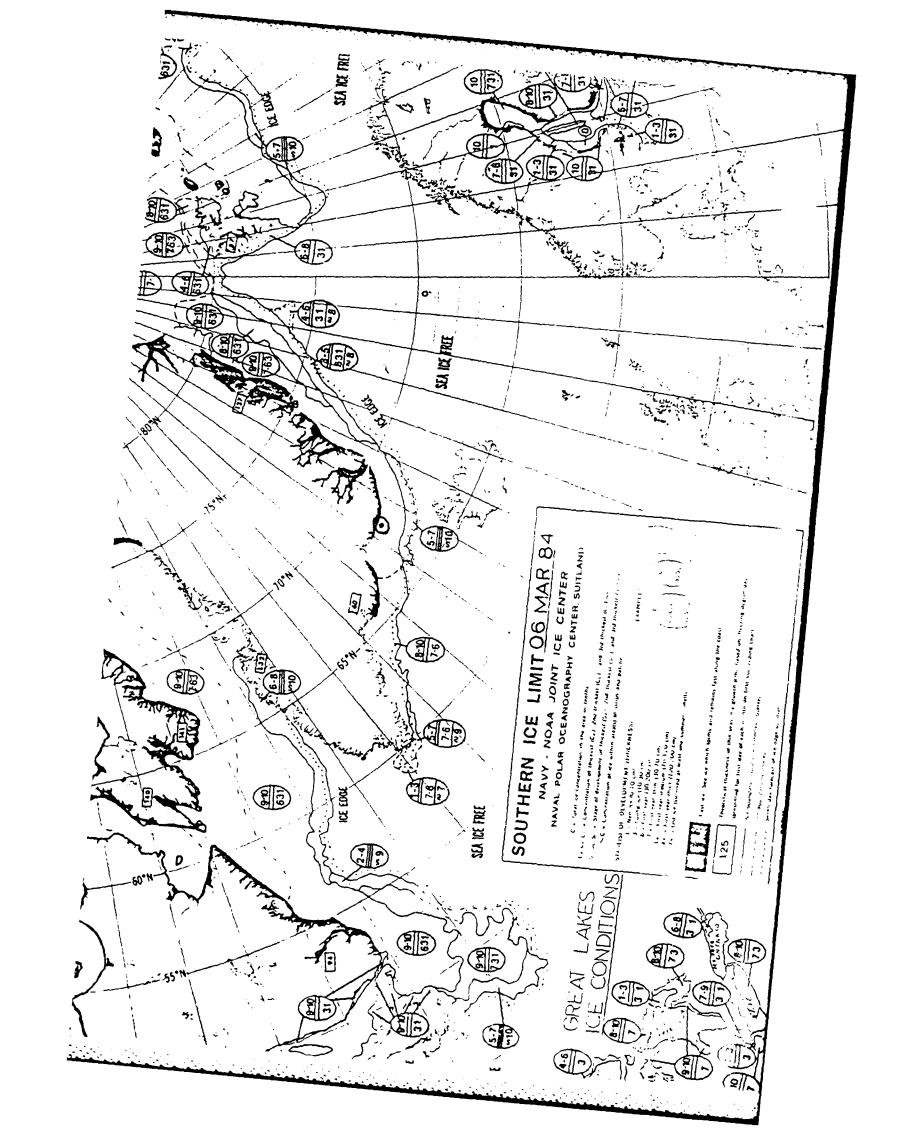
OUTPUT IN FILE ARNA2838

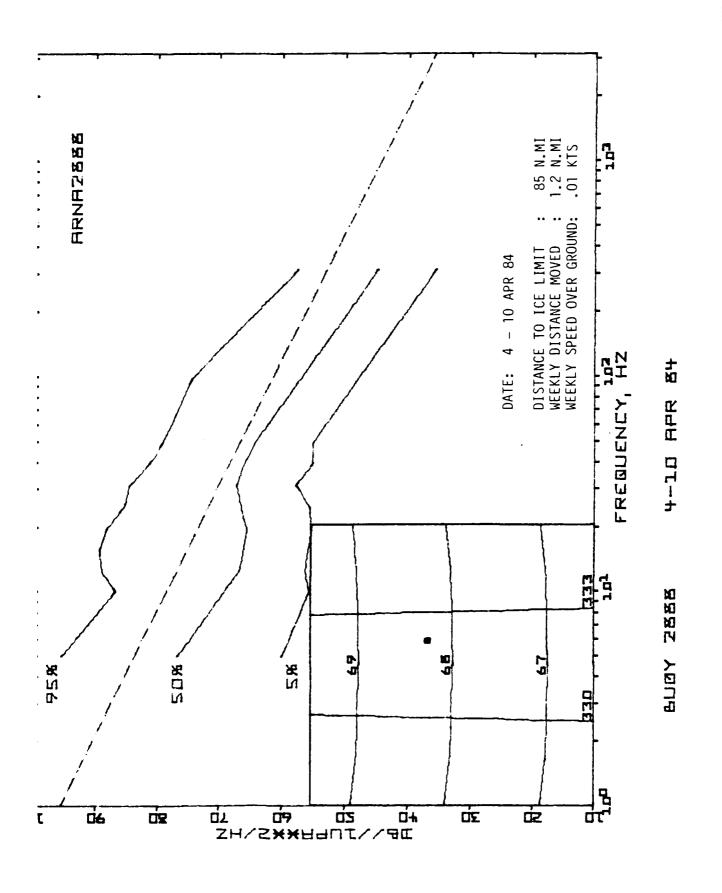
-1.500 EAST: -24.183 DISPLACEMENT (N. MI.): 24.229 NORTH: DIRECTION (TRUE): 266.485

THE NUMBER OF DATA SAMPLES IS 38

FREDIENCY		STD				Σ	MEDIAN					
H7	AVG	J-F	Z X	5%		25%		75%	206	95%		Z
ָ ייי	77 3	7.2	59.3	60.9		74.9		83.4	84.7	85.3		ж Ж
10.01	70.8	8	56.2	57.6		66.7		76.2	78.7	79.8		œ
12.5	73.5	7.5	58.2	58.7		69.5		78.7	80.7	84.8		88
16.0	75.7	7.7	59.2	80.8		70.5		80.8	85.2	82.8		33
20.0	75.7	7.7	59.2	60.3		71.4		81.2	84.1	87.2		ဗ္ဗ
25.0	75.3	7.1	59.9	60.5		70.3		80.5	82.4	83.2		33
31.5	76.4	8.2	61.2	61.8		71.6		80.6	85.8	86.6		37
40.0	73.6	7.0	61.0	61.0	65.7	48.4	75.0	77.8	81.0	83.8	95.0	œ
50.0	73.7	7.6	60.4	61.1		68.3		77.2	81.7	84.2		88
100.0	66.7	6.5	52.2	54.8		60.1		70.4	74.8	76.4		37
315.0	52.8	9.1	36.8	36.3		47.5		57.9	59.9	63.4		œ e
STOP												







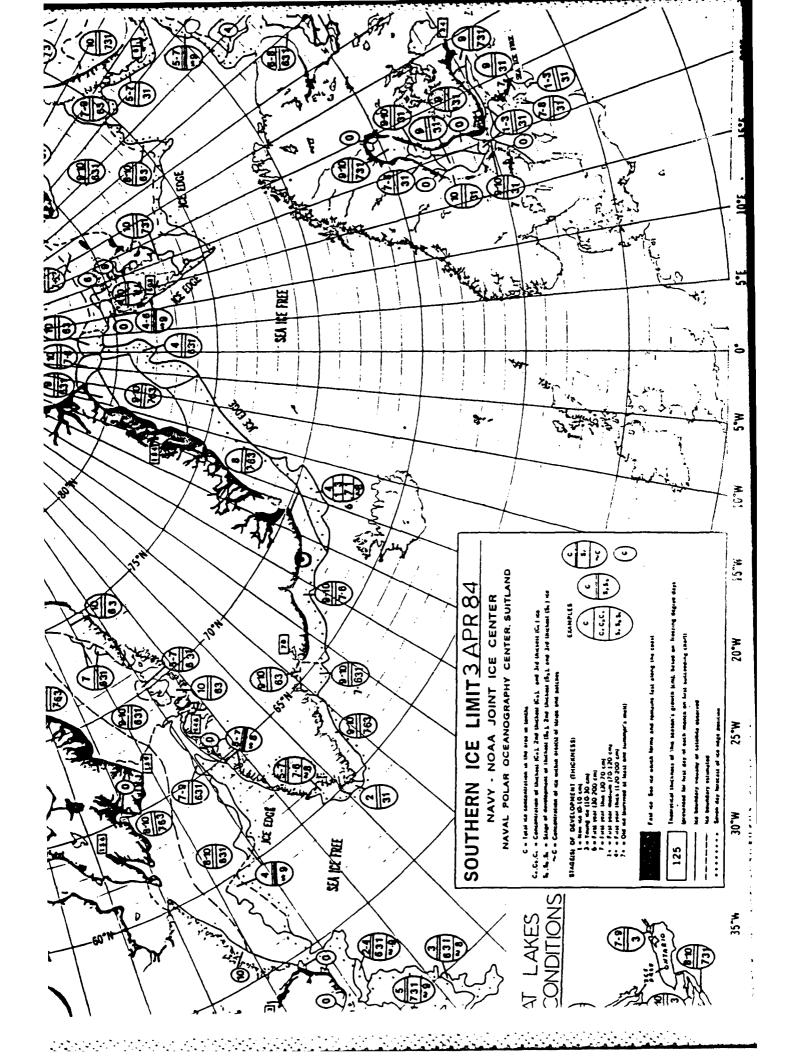
MONTH: 4-10 APR 84 RUNY: 2888

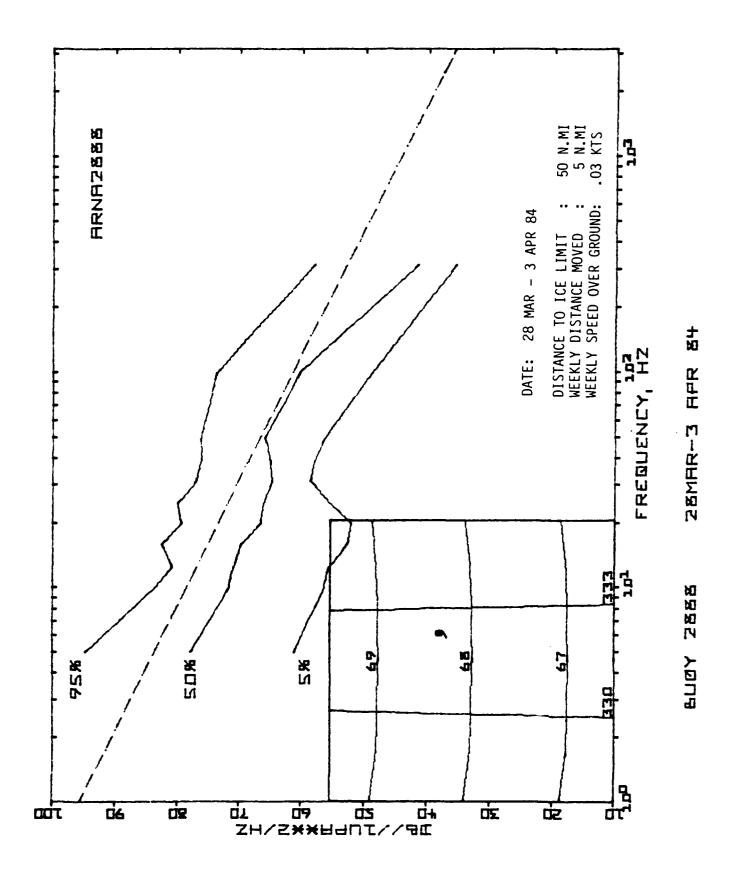
OUTPUT IN FILE ARNA2888

-0.223 -1.200 EAST: DISPLACEMENT (N. MI.): 1.221 NORTH: DIRECTION (TRUE): 190.524

THE NUMBER OF DATA SAMPLES IS 46

FREGUENCY		STD				Σ	MEDIAN					
H7 A	AVG			5%	10%	25%			206	25%	MAX	Z
0.0	77.3	_		59.9	6.09	67.8			91.9	95.4	96.1	46
10.0	70.2			ທ ທີ	50°.2	62.3			82.3	86.7	92.7	46
12.5	63.7			56.2	57.6	40.7			80.7	89.0	93.5	46
16.0	67.9			55.6	57.9	59.7			78.6	89.3	92.8	0
20.0	67.0	8.6	52.0	55.1	57.4	62.2	65.4	70.0	78.7	38.0	89° 01	46
25.0	66.6			0.00 0.00	0.8° 0.0°	61.5			75.5	80°, 3	89.2	45
31.5	67.8			57.7	59.9	65.8			75.7	84.5	39.7	46
40.0	66.5			99°0	59.2	63.0			75.0	81.0	88.1	46
50.0	65.5			55.0	58.1	62.2			71.2	79.0	87.1	46
100.0	58.1			47.6	49.4	52.2			68.2	74.2	85.0	46
315.0	43.1			35.4	35.4	35.4			53.9	57.4	64.0	44
STOP												





MONTH: 28MAR-3 APR 84 BUOY: 2888

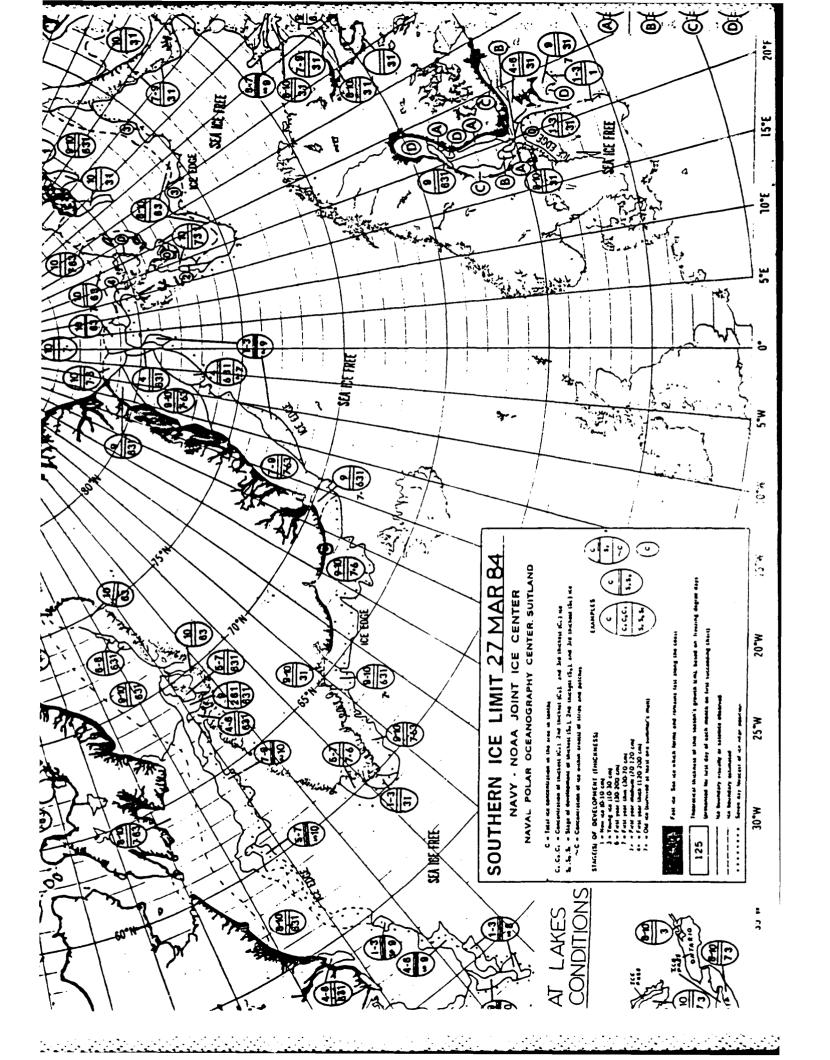
OUTPUT IN FILE ARNA2383

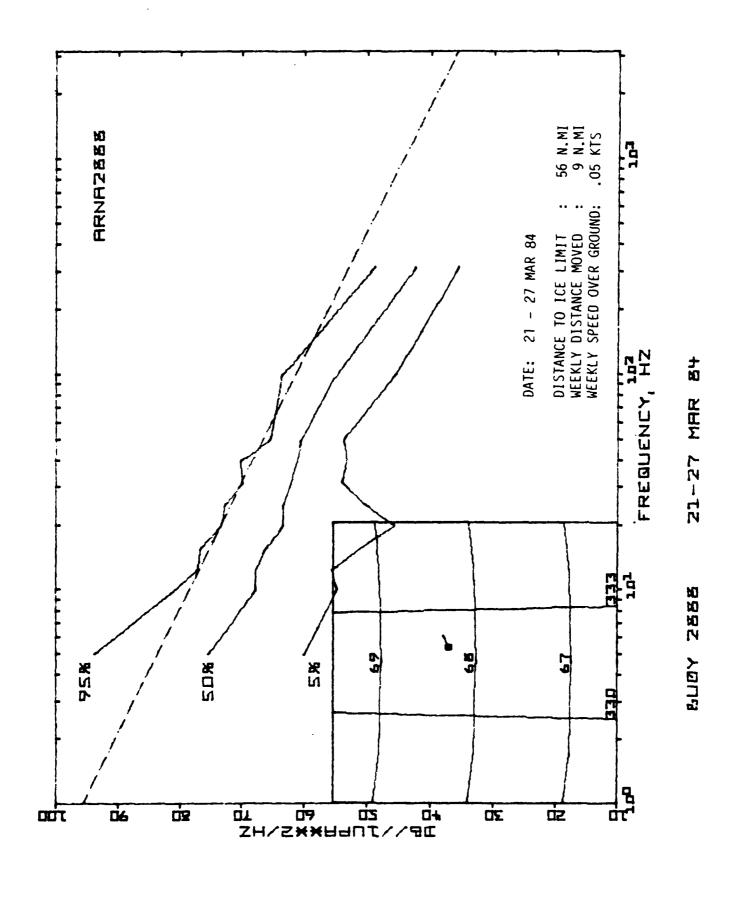
-4.439 EAST: DISPLACEMENT (N. MJ.): 5.178 NORTH: DIRECTION (TRUE): 211.002

" THE NUMBER OF DATA SAMPLES IS 41

	NEDIAN 10% 25% 50% 75% 63.4 70.1 77.9 84.1 58.2 63.4 71.5 76.9 56.2 64.2 70.9 77.6 56.5 63.3 69.6 75.6 56.0 60.3 66.3 70.0 57.2 59.9 65.9 69.4	NEDIAN 10% 25% 50% 63.4 70.1 77.9 58.2 63.4 71.5 56.2 64.2 70.9 56.5 63.3 69.6 56.0 60.3 66.3 57.2 59.9 65.9	MEDIAN 5% 10% 25% 50% 60.9 63.4 70.1 77.9 56.2 58.2 63.4 71.5 55.5 56.2 64.2 70.9 52.5 56.5 63.3 69.6 52.0 56.0 60.3 66.3 55.5 57.2 59.9 65.9
	NE 10% 25% 63.4 70.1 58.2 63.4 56.2 64.2 56.3 56.3 56.3 56.3 56.3 56.3 56.0 60.3	NE 10% 25% 63.4 70.1 58.2 63.4 56.2 64.2 56.3 56.3 56.3 56.3 56.3 56.3 56.0 60.3	ME 5% 10% 25% 60.9 63.4 70.1 56.2 58.2 63.4 55.5 56.2 64.2 52.5 55.0 60.3 52.0 56.0 60.3
		5% 10% 60.9 63.4 56.2 58.2 55.5 56.2 52.5 56.5 52.0 56.0	5% 60.9 56.2 55.5 52.5 53.5
25% 70.1 63.4 63.3 63.3 60.3		5% 50.9 56.2 55.5 52.0 53.0	
MIN 5% 10% 25% 59.9 63.4 70.1 56.2 56.2 58.2 63.4 53.4 55.5 56.2 64.2 51.9 52.5 56.5 63.3 56.4 55.5 55.0 60.3		STD DEV 9.6 8.5 8.5 11.1 8.4 7.9	
STD DEV MIN 5% 10% 25% 9.6 59.9 60.9 63.4 70.1 8.5 56.2 56.2 58.2 63.4 8.5 53.7 55.5 56.2 64.2 11.1 51.9 52.5 56.5 63.3 8.4 50.7 52.0 56.0 60.3 7.9 54.4 55.5 57.2 59.0	- ·	STD AVG DEV 77.6 9.6 70.9 8.5 70.5 8.5 70.4 11.1 66.7 8.4	AVG 77.6 70.9 70.5 70.4 66.7

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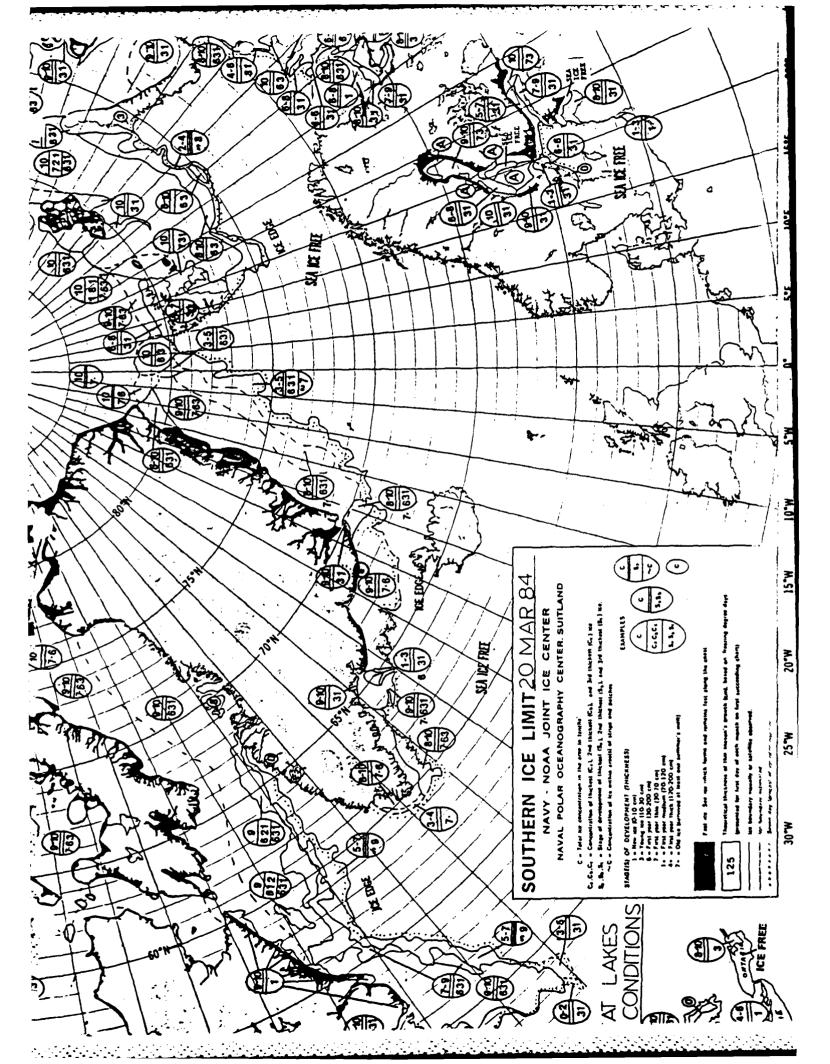
MONTH: 21-27 MAR 84 RUGY: 2888

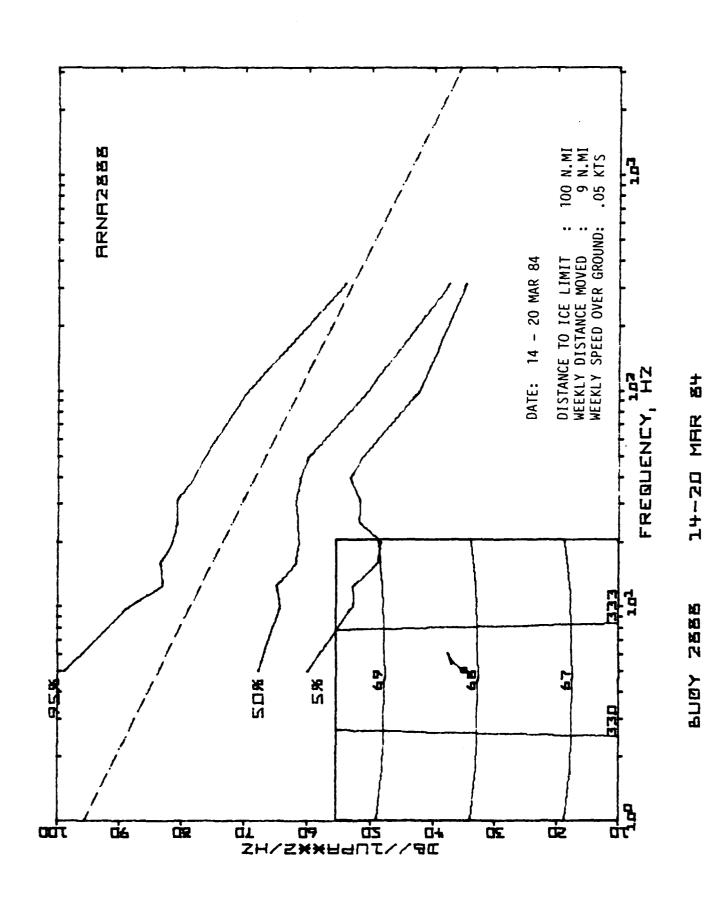
OUTPUT IN FILE ARNAZASS

7.987 3.239 EAST: 8.619 NORTH: DISPLACEMENT (N. MI.): 8 DIRECTION (TRUE): 67.920

THE NUMBER OF DATA SAMPLES IS 50

FREQUENCY		STD				Σ	MEDIAN					
H2	ĤVG	DEV	MIN	22	10%	25%	50%	75%	706	95%		2
5.0	76.6	12.2	58.7	59.9	61.8	1.4.7	75.4	85.9	92.9	93.8	-	50
10.0	68.9	ტ დ	53.7	54.6	57.6	63.4	67.5	75.5	80.7	80.7	83.6	000
12.5	67.9	7.4	50.9	55.5	56.9	63.6	67.5	73.7	76.2	76.9		Ç.
16.0	65.6	7.1	30. B	50,5	56.5	80.8	65.8	70.5	73.7	76.5		49
20.0	62.1	8.0	39.9	42.4	50.7	56.0	63,1	9.99	70.0	73.2		40
25.0	62.3	7.1	46.6	00 20	51.9	58.0	63.0	62.9	68.4	72.6		020
31.5	62.4	o, o	49.7	53.9	54.6	59.3	61.9	65.6	68.5	69.7		00
40.0	61.1	ю О	53.2	53.2	89°	50.0	61.0	63.0	65.7	70.0		49
20.0	59.9	3,7	52.1	53.7	54.4	57.2	4.09	62.4	64.2	65.2		4
100.0	54.7	5.6	45,3	45.3	48.2	50.4	54.8	57.3	6.09	63.4		49
315.0	41.6	5,4	34.7	35,4	35.4	36.1	42.2	45.9	47.8	49.7		49
STOP							•					•





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MONTH: 14-20 MAR 84 BUOY: 2888

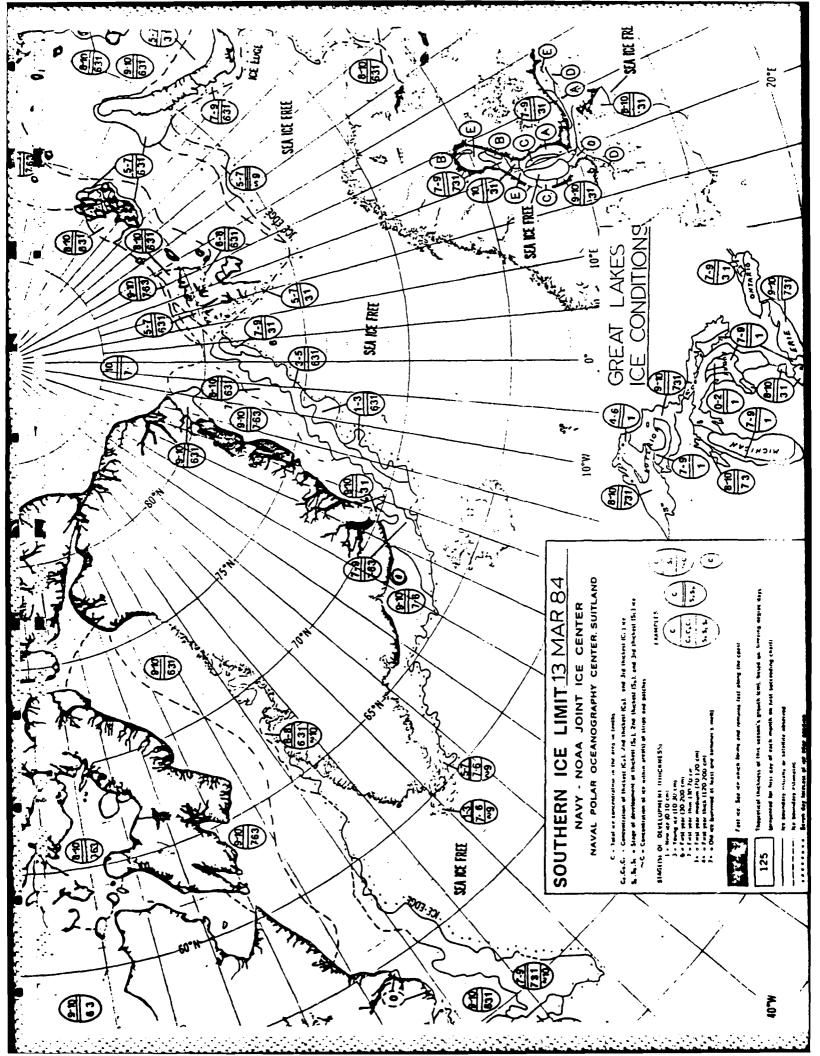
シャンの意味のながなから、「このなななななな」

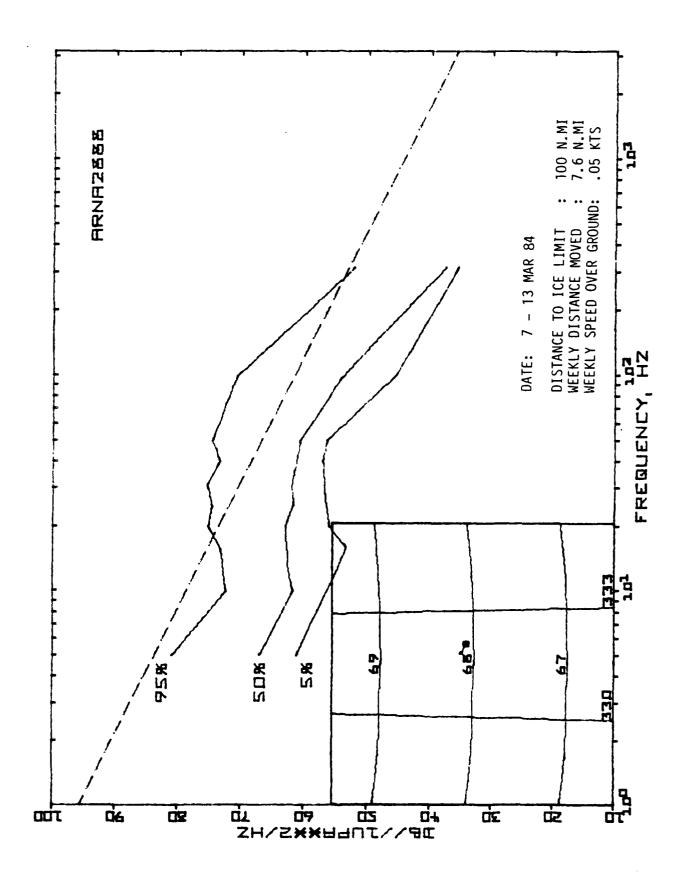
OUTPUT IN FILE ARNAZ888

EAST: 8.221 DISPLACEMENT (N. MI.): 8.791 NORTH: DIRECTION (TRUE): 20.744

THE NUMBER OF DATA SAMPLES IS 44

	ഗ	(TD				Σ	MEDIAN					
	DEV		Σ	2%	10%	25%		75%	20%	95%	MAX	Z
	2.6		59,3	59.9	60.09	63.4		79.3	88.6	93.9		44
66.1 12.6	2.6		27.3	52.7	54.6	58.7	64.2	72.1	81.5	88 88	103.6	44
	0.0		51.5	52.7	54.6	58.2		72.7	82.9	82.9		41
	1.2		48.7	48.7	51.9	54.7		71.2	82.5	83.3		44
8 10.8	0.8		48.2	48.2	49.1	53.1		69.1	79.2	81.2		43
	1.1		49.4	51.9	53,3	56.4		71.2	79.9	80.5		4 3
	9.6		42.5	51.6	52.5	57.7		70.7	73.5	80.6		44
	7.4		52.5	53.2	56.0	57.8		69.0	74.4	77.8		44
	7.6		50.2	51.2	53.0	57.2		67.7	74.4	76.2		43
	9.5		37.3	42.2	43.4	46.1		60.9	6.99	69.4		43
	7.2		34.7	34.7	35.4	36.1		46.9	51.9	53.9		43





BLICY ZEES

7-13 MAR 84

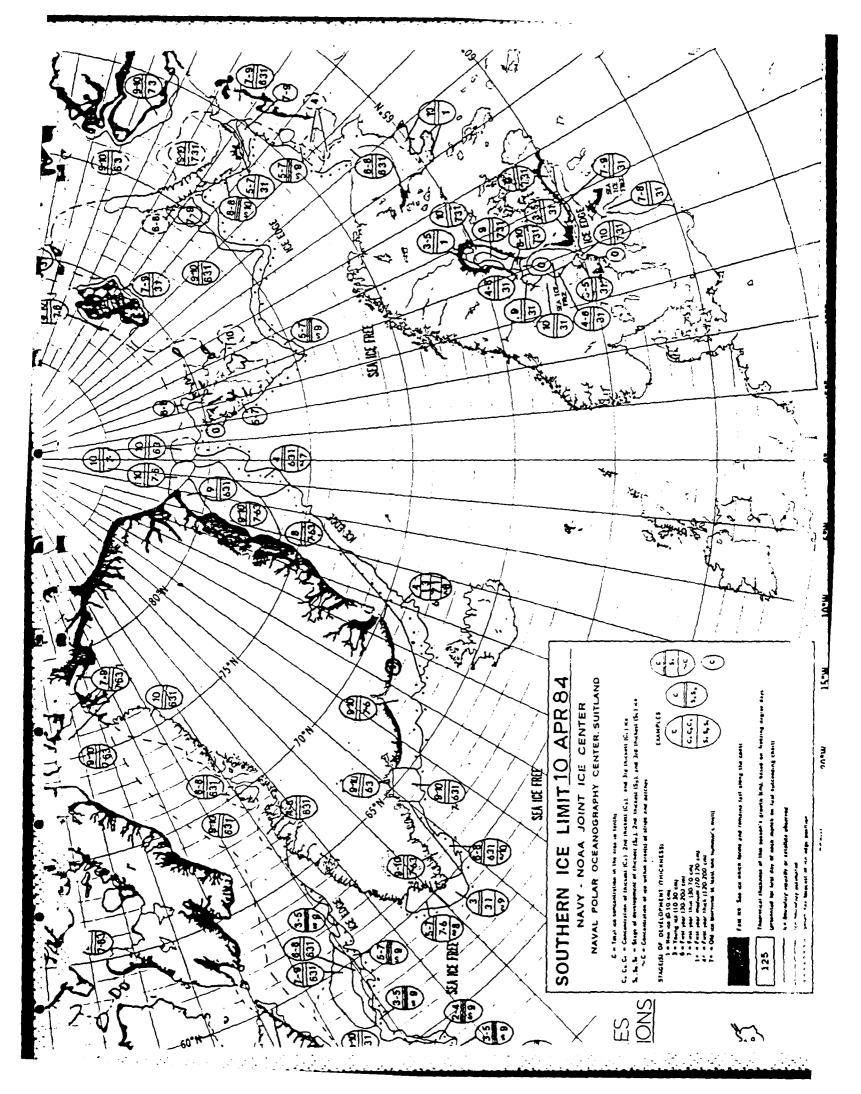
MONTH: 7-13 MAR 84 RUOY: 2888

OUTPUT IN FILE ARNA2888

-6.265 4.260 EAST: 7.576 NORTH: DISPLACEMENT (N. MI.): 7 DIRECTION (TRUE): 304.137

THE NUMBER OF DATA SAMPLES IS 40

	z	8	æ	33	40	დ რ	40	86	40	88	ဗ္ဗ	88	
	MAX	0 0 0	74.6	74.6	77.2	79.2	78.0	30.6	79.2	77.2	74.2	57.9	
	756	80.9	72.1	72.7	73.1	75.1	74.4	75.2	73.2	74.4	70.4	51.9	
	20%	79.3	69.5	71.5	71.9	71.4	71.9	72.5	71.8	73.7	66.9	51.9	
	75%	74.9	67.5	67.7	70.5	67.2	67.2	69.7	87.8	66.1	6.09	46.9	
MEDIAN	20%	6.99	61.5	62.3	62.5	62.8	61.5	61.8	61.0	60.4	53.6	37.4	
Σ	25%	63.4	58.2	57.6	58.6	58.7	58.8	59,3	58.5	58.1	51.3	36.1	
	10%	61.8	56.2	ម ម្រ	55.6	56.0	56.4	57.7	54.9	56.2	47.6	35.4	
	2%	60.9	56.2	54.6	53, 1	56.0	56.4	56.9	56.9	56.2	45.3	35.4	
	ΣIΣ	60.09	55.5	53,7	53.1	55.1	55.5	56.8	56.9	54.4	44.4	35.4	
STD	DEV	7.0	5.4	6.2	9.9	6.2	6.1	6.4	ი ი	6.5	7.8	8.9	
	AVG	69.2	63.0	63.4	63.7	63.5	63.59	64.4	63.5	63.0	56.1	41.3	
FREGUENCY	žH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP



MONTH: 11-17 APR 84 RUDY: 2888

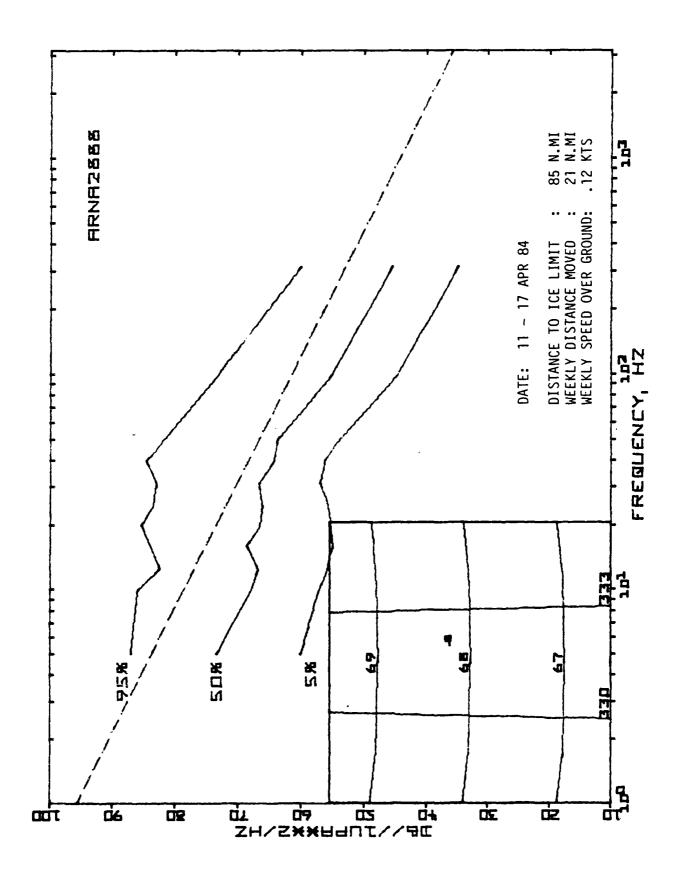
OUTPUT IN FILE ARNA2888

-4.560 EAST! -20.943 DISPLACEMENT (N. MI.): 21.434 NORTH: DIRECTION (TRUE): 257.747

THE NUMBER OF DATA SAMPLES IS 44

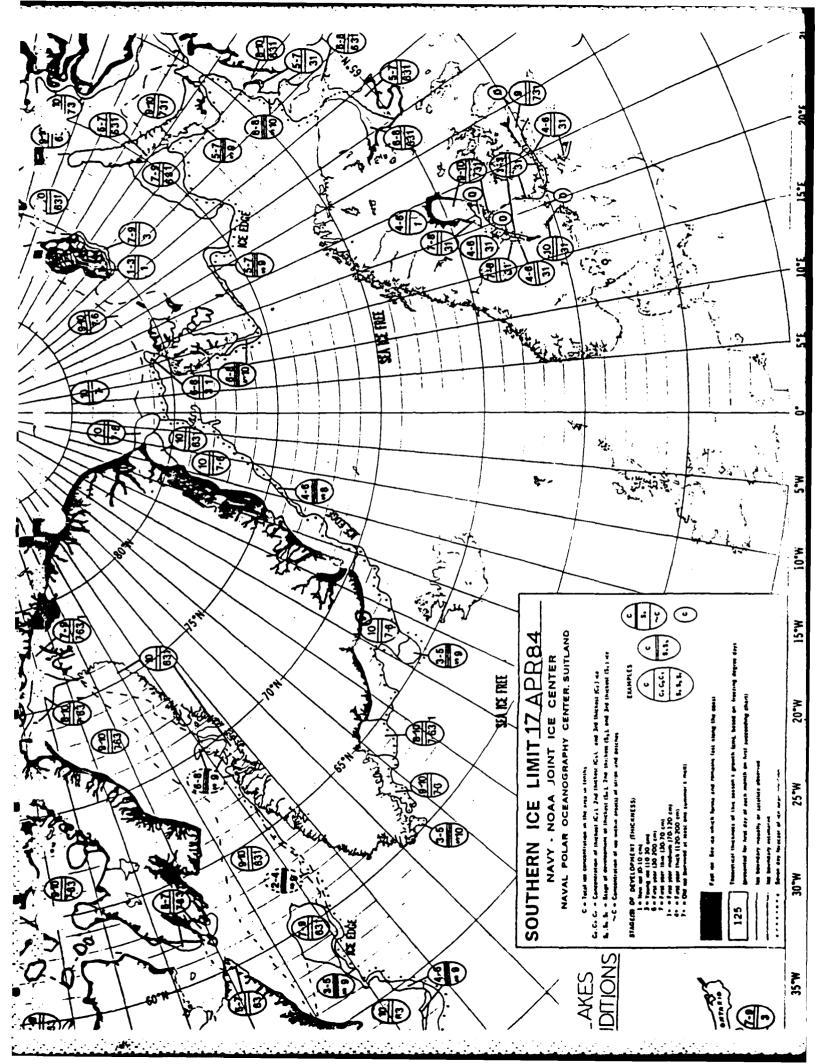
FREQUENCY		STD				Σ	MEDIAN					
HZ	AVG	DEV	NIΣ	2%	10%	25%	50%	75%	206	95%	MAX	Z
0.	73.8		59.9	59.9	60.9	64.7	73.3	81.8	85.9	86.9	98.9	44
10.0	68.8		55.5	56.9	58.2	62.3	67.7	72.7	78.7	82.8	8.96	43
12.5	68.9		54.6	55.5	57.6	60.7	66.7	74.6	79.8	82.3	90.3	42
16.0	68.5		27.5	54.7	55.6	59.7	89.5	75.6	83.3	83.9	90.6	44
20.0	68.4		53.2	55.1	56.7	61.2	66.3	74.2	82.0	85.3	91.3	44
25.0	68.2		54.4	55.5	57.2	61.5	65.9	74.4	82.4	83.2	90.7	43
31.5	63.5		55.2	56.8	59.3	62.8	9.99	73.9	79.9	32.8	88.8	43
40.0	67.3		53.8	56.0	56.9	80.5	64.0	72.5	77.8	84.6	99.1	43
50.0	64.4		23.0	53.7	57.2	58.1	63.6	70.2	75.6	81.7	87.1	43
100.0	57.0		24.0	44.4	47.6	52.2	54.8	62.2	70.4	72.9	80.9	44
315.0	44.1	ω ω	34.7	34.7	35,4	36.1	45,3	48.7	52.9	59.9	72.8	44
STOP					•							

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BLIGY ZEES

11-17 HPR 84



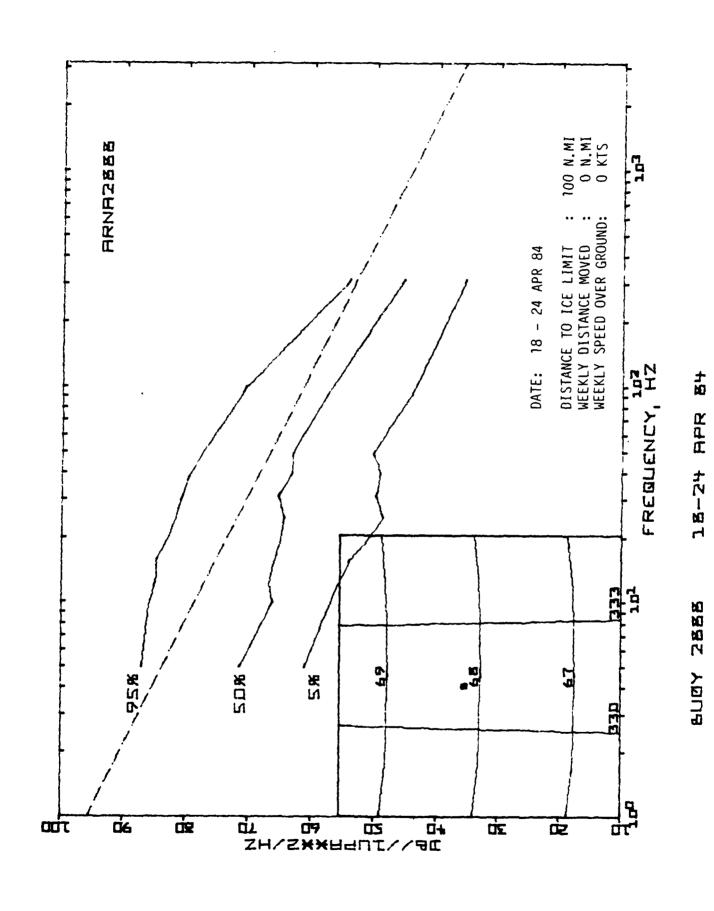
MONTH: 18-24 AFR 84 BUOY: 2888

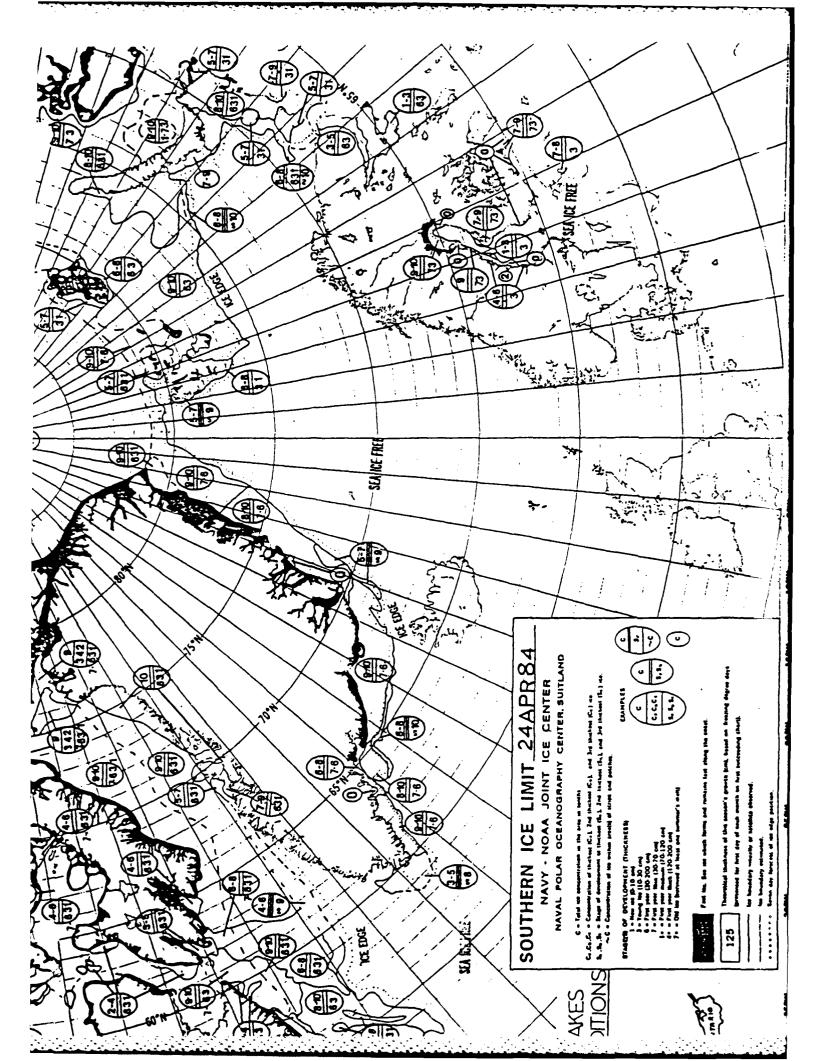
CUITPUT IN FILE ARNA2888

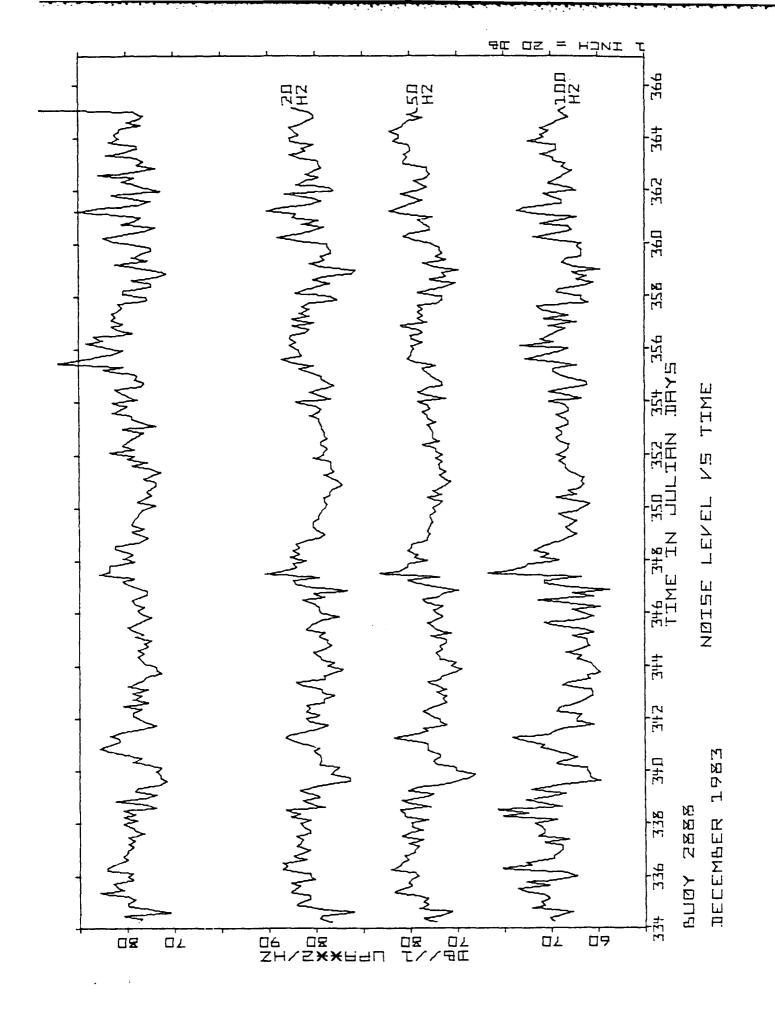
0.000 EAST: 0.000 NORTH: DISPLACEMENT (N. MI.): 0.

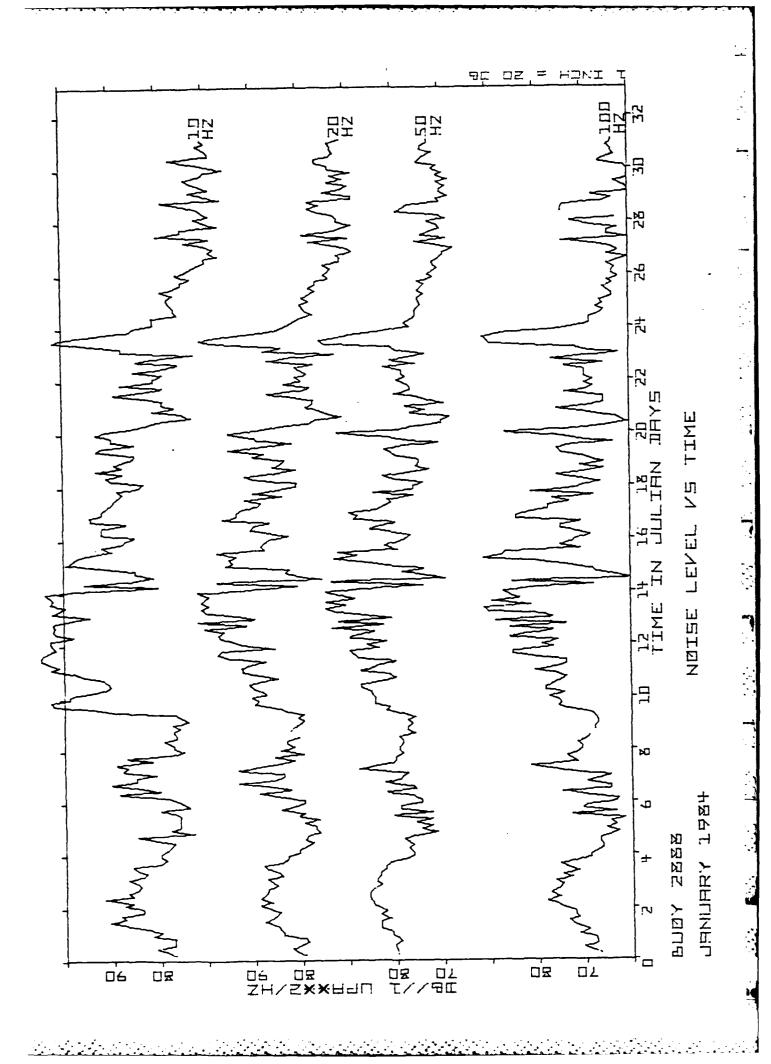
THE NUMBER OF DATA SAMPLES IS 42

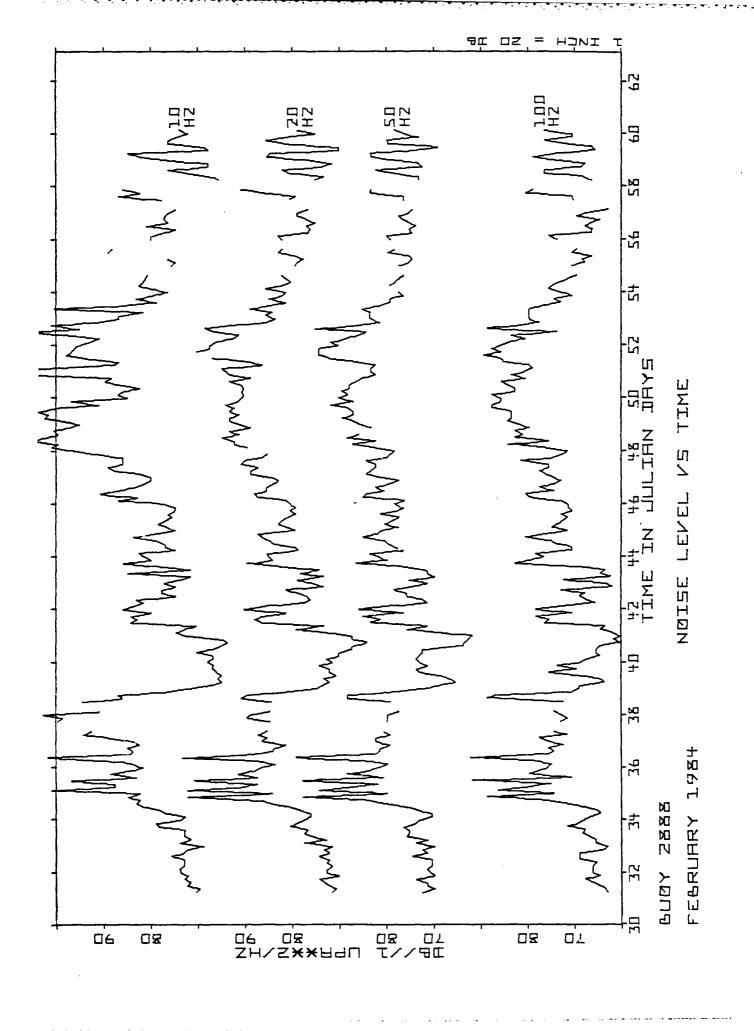
	z	42	42	42	42	42	42	42	42	42	42	42	
	MAX	37.8	89.6	90.8	91.8	89.5	7.06	8%.0	88.1	87.1	79.6	63.4	
	95%	86.9	တ ကို	84.8	84.6	85.8	81.5	30.6	79.2	77.2	70.4	53.9	
	20%	4.68	78.7	81.5	80.8	80.3	79.9	79.9	77.8	76.2	69.4	51.9	
	75%	78.7	72.7	72.7	73.7	70.7	70.3	71.6	69.0	69.0	61.6	46.9	
1ED LAN			66.1										
Ξ	25%	64.7	59.8	58.2	58.6	57.4	57.2	59,3	56.9	56.2	4 8 8	36.1	
	10%	63.4	57.6	න න	54.7	52.0	51.2	52.5	51.8	51.2	45.3	35.4	
	2%	60.9	56.9	00°00	53.7	50.7	48.4	49.7	49.0	50.5	43.4	35.4	
	ΣIN	6.09	10 10 10 10	53.7	53.1	43.1	47.8	47.9	49.0	48.4	40.9	34.7	
STD	DEV	9.0	8.7	9.5	10.1	10.5	10.0	9,5	9. S	9.1	9.5	7.5	
	AVG	72.0	67.1	67.3	67.1	65.5	65.0	65.3	64.3	63.5	57.0	43.4	
FREQUENCY	HZ	ဝ'မှာ	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315,0	STOP

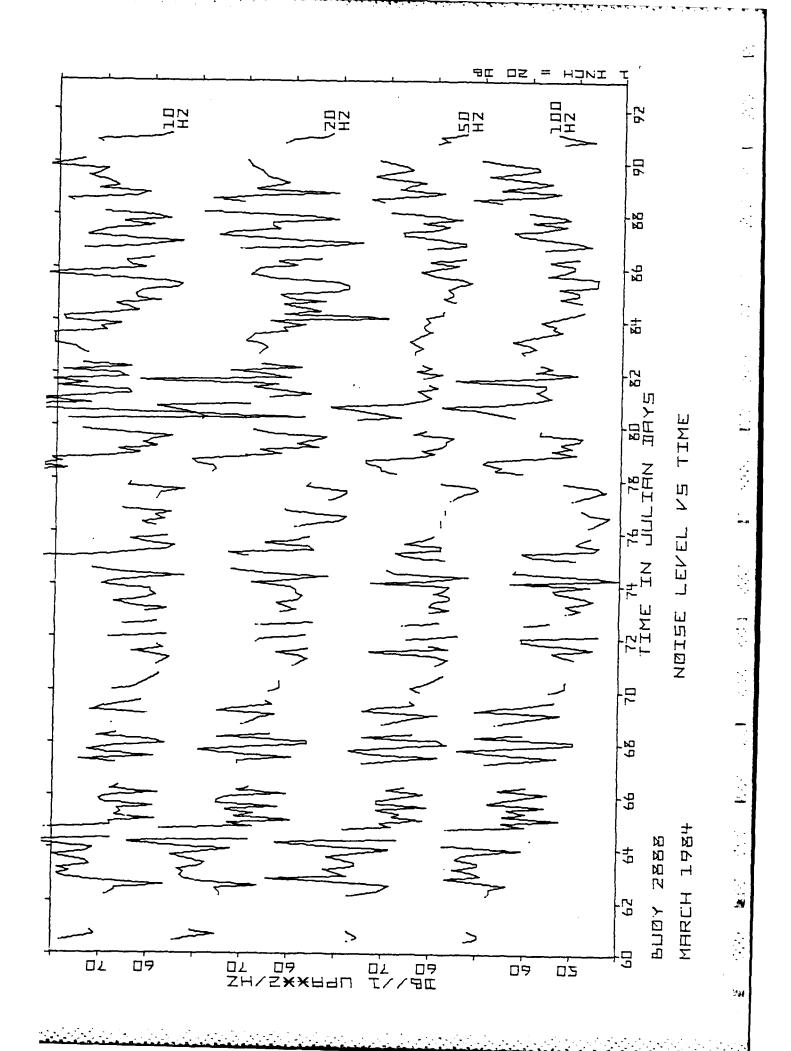


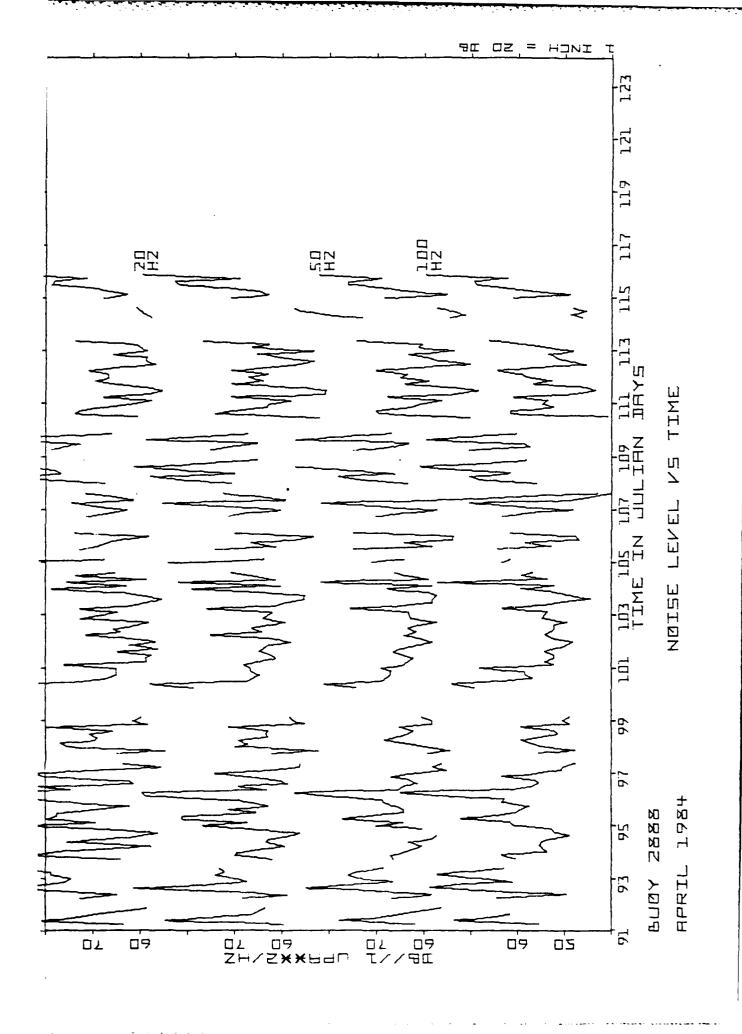












APPENDIX 7

Date Buoy I.D. 2889

Life in Reporting Area 2 (West Greenland Sea)

1 May 1984 - 30 Sept 1984

Type: SYNARGOS (5 - 320 Hz)

8UOY 10 2889

MAY 1984

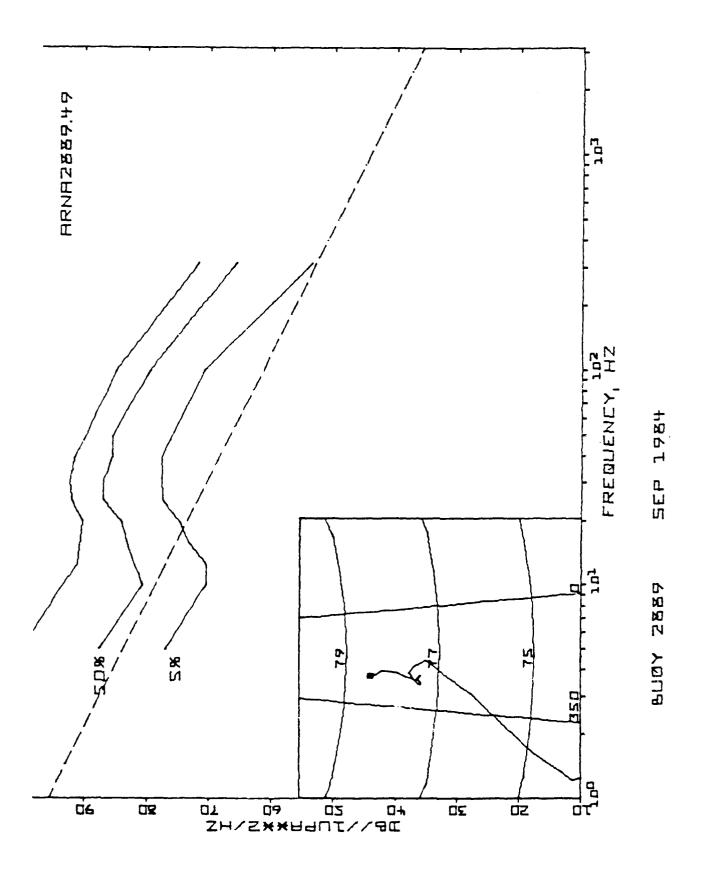
DAY	GMT	POSIT	TÜN		DAY	GMT	POS) I T	ION	
122	402	81.908 N	7.014	W	138	436	79.379	Ν	8.583	W
123	500	81.610 N	6.619	W	139	415	79.346	И	8.655	[4]
124	440	81.277 N	6.147	W	140	352	79,309	N	8.667	W
125		81.078 N	6.056	W	141	328	79.360	Ν	8.321	W
126	455	80.896 N	6.157	W	142	459	79.362	N	8.309	W
127	443	80.893 N	6,128	W	143	447	79.367	N	8.180	W
128	452	80.720 N	6.283	W	144	435	79,252	N	9.248	W
129	4 3 1	80.621 N	A. 033		145	422	79.280	И	9.522	W
130	410	80.356 N	5,827	W	146	500	79,278	N	9,535	W
131		80.288 N	5.818	W	147	443	79.308	N	9.722	W
132		80.239 N	5.903		148	421	79.337	N	9,608	W
133		80.183 N	6.502		149	357	79.363	Ν	9.540	W
134		80.165 N	6.564		150	500	79.370	N	9,407	W
135		79.640 N	7.998		151	457	79.370	N	9.407	W
136		79.468 N	8.494	• •	152		79.402		9.512	W
137		79.461 N	8.453		2 2	. ·				

BUGY 10 2889

JUNE 1984

DAY	GMT	BOSITION		DAY	GMT	POS	ST.	FION	
153	474	79.421 N 9.991	لنا	168	441	78.375	Ν	10.278	W
15.4	417	79.419 N 9.991	W	169	477	78.338	Ν	10.203	W
15,5	ुन, क	79.417 N 10.100	W	170	416	78.048	N	ディを予告	W
150.	440	77.333 N 10.351	W	171	40.2	77,995	N	ରା, ନନ୍ଦ	W
3 = 7	427	79,302 N 10,405	W	172	P. 57, 12,	77,994	N	୭.୦୦୦	إما
1.50	500	79.231 N 10.711	W	173	333	77,957	N	오.용요1	W
150	451	79.158 N 10.392	W	174	500	77.882	N	10,287	W
17.0	450	79.148 N 10.698	W	175	455	77,884	N	10.319	W
151	440	79.046 N 10.742	4	174	443	77.873	N	10.894	W
17.3	413	78.838 N 10.876	W	177	431	77.835	И	11.442	W
10.3	401	78.752 N 10.190	W	178	417	77.907	N	11.875	W
17.4	348	78.645 N 10.395	W	179	405	78.013	M	11.748	N
165	335	78.583 N 10.433	W	180	353	78.141	N	11.579	W
1600	SOO	78.506 N 10,782	W	181	403	73,204	М	11,502	W
$1 \leqslant 7$	454	78.375 N 10.078	زيا	182	500	78.208	14	11.500	W

DATA BY WEEKS



MONTH: SEFT 84

00000 Fall (17)

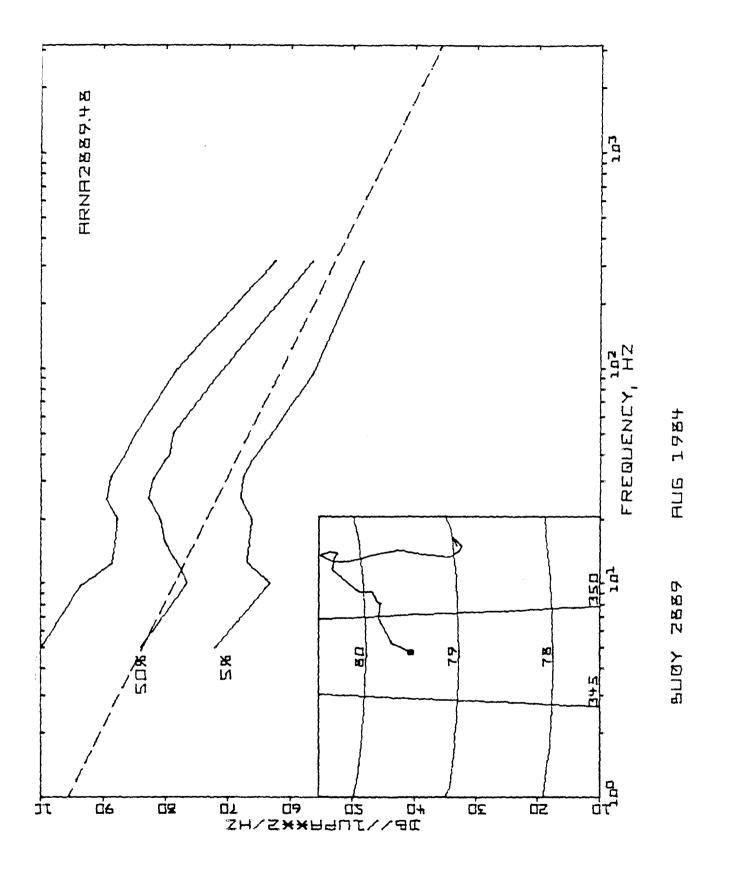
CHIEFLY IN FILE ARNASSES

DISELACEMENT (N. MI.): 299.493 NORTH: -280.320 FAST: 105.436 DIRECTION (TRUE): 200.634

THE MINTER OF DATA SAMPLES IS 240

FREDUENCY		OTE				Ξ	METHINA					
147	AVG	7.5.7		7.5	10%	**************************************		744		75.5		2
о. И	000 000			76.8	79.0	(v. (v. (±		94.9	_	104.0	_	012
10.0	81.0			70.4	73.8	77.0		ं ५ %		60 60 60		240
្ន	31.1			%o.3	74.4	70.0		134.9		0.00		600
16.0	02.4			73.3	75, 8	70.4		S.S. 4		90.4		740
0.08	0.00			74.8	77.5	80.8		87.6		90.1		240
C. 18.	0.98			77.5	80.0	82.7		5. 60		0.70		740
000	0.6			77.6	79.7	00° (N) (00°		39.6		0.00		808
40.0	0.50 0.00	6.4	73	77.5	78.8	80.1	4.08		0.06	91.4	94.9	233
50.0	84.0			75.8	77.4	31.0		87.0		0.00		240
100.0				70.7	72.7	75.0		S. 13		84.8		240
315.0	64.1			10 (0) (0)	ី. មា	60.3		6.3.4		71.6		240
STOP												

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MONTH: AUG 84

FULLY: 2889

CUITFUL IN FILE ARNAZESS

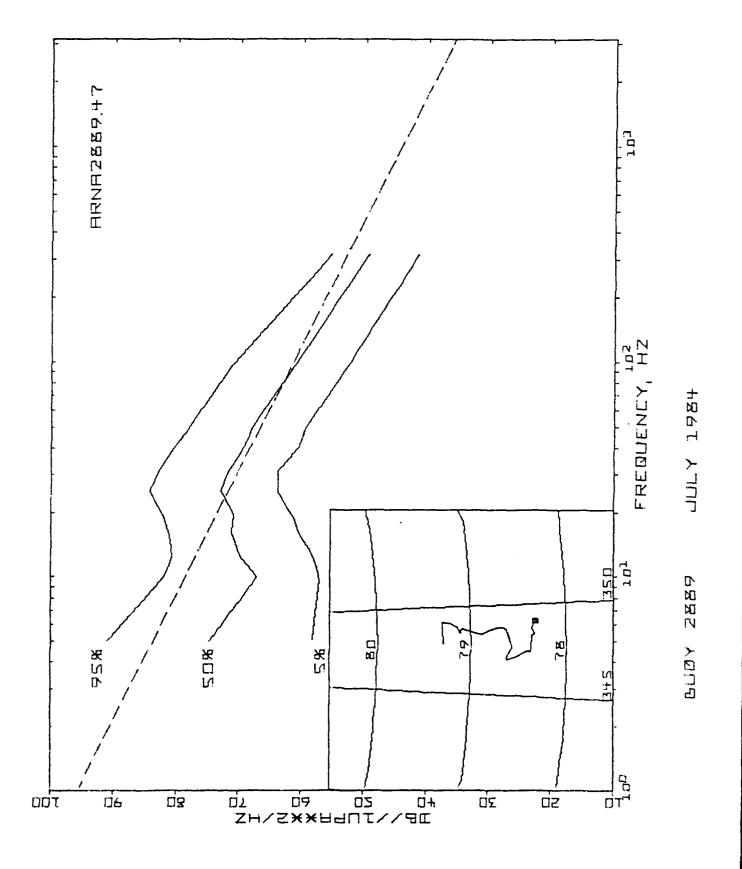
DISPLACEMENT (N. MI.): 74.386 NORTH: -33.720 EAST: 66.304 DIRECTION (TRUE): 116.961

THE NUMBER OF DATA SAMPLES IS 248

	2	243	248	247	246	247	248	248	248	247	248	247	•
	HAX	1.001	103.9	101.0	99.2	6. 10.	93.0	91.7	94.0	105.0	0.18	6/.4	•
	296	103.1	60.00	88.4	87.9	87.6	60°	800	86.4	34.3	78.1	62.4	
	200	97.0	67.3	36.	85.4	86.0	87.9	67.0	85.4	00 00 00 00	76.7	61.4	
						34.1							
MEDIAN	50%	34.0	76.5	78.0	ë. 000	30. x	82.7	0.18	79.3	78.0	70.7	4. 00€	
Ξ	7:27	79.0	71.0	71.9	74.2	75.5	77.5	76.8	74.3	73.9	66.7	ල. ම	
	10%	74.7	66.0	6.8.4	69.1	70.2	70.7	72.3	69.2	67.9	60.1	6.00 0.00	
	22	71.5	63.2	8.99	66.3	66.0	67.9	67.6	83. ES	6.29	ល ភូមិ ស	48.2	
	ZIM	56.1	56.50	41.1	62.2	61.9	64.2	कि. क	(a)	∰. 1.	49.8	41.4	
STD	LIFV	0. 0.	ر. د.	7.0	6.7	6.4	6.4	6.2	6.4	6.6	6.4	្ន	
						79.5							
FREQUENCY	ZH	0 10	10.0	න. ව	16.0	20.0	25.0	ල 	40.0	50.0	100.0	୍ର ଓ ଓ .	STOP

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MONTH: JULY 84

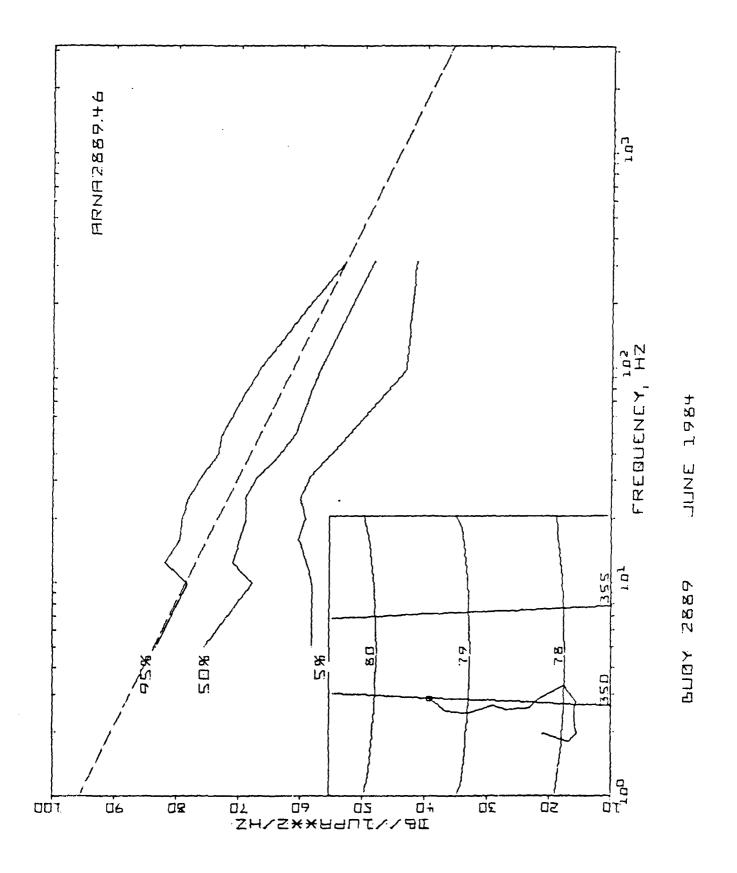
BUOY: 2889

CUIFUL IN FILE ARNAZ889

DISPLACEMENT (N. MI.): 61.136 NORTH: 59.400 EAST: -14.463 DIMECTION (TRUE): 346.296

THE NUMBER OF DATA SAMPLES IS 243

	_Z	240	240	240	243	242	243	242	240	243	243	243	
	MAX	107.5	6.76	94.4	92.3	89.5	90.2	90.4	38.1	0.40	79.9	6.49	
	726	91.0	81.9	30°.0	31.1	82.5	84.2	85. 82.	80.4	78.1	70.7	ල ල	
	206	87.5	77.0	78.0	78.3	78.0	80.0	0.00 0.00	78.2	74.9	68.9	54.2	
	75%	0.62	71.0	72.8	74.2	73.9	75.9	75.9	73.3	72.1	65.4	0.10 0.10	
EDIAN	202	74.7	6.99	69.7	71.1	70.8	72.8	71.6	69.2	6.7.9	60.7	49.3	
Ŧ	797	71.9	69.8	66.3	67.3	67.9	8.69	68.2	64.8	65.39	တ ကို	48.2	
	10%	70.1	61.7	6.53	63.0	64.1	66.1	65.1	61.3	59.9	83.9	47.5	
	% S	53°0	57.0	58.0	e.09	61.6	63.0	63.8	60.4	59.4	52, 1	41.4	
	MIM	00°0	52.0	54.4	54.2	មា មា	တ တ ကြ	60.3	0.90 0.00	56.7	47.9	41.4	
STD	DEV	9.6	7.3	6.0	6.0	o. In	5.6	က က	6.2	6.0	6.2	4.	
	AVG	76.0	68.2	70.2	71.1	71.3	73.1	72.4	69.6	67.8	61.1	49.7	
FREQUENCY	ZH	၀. တ	10.0	12.5	16.0	20.0	25.0	31.5	40.0	0.00	100.0	315.0	STOP



MONTH: JUNE 84

BUOY: 2889

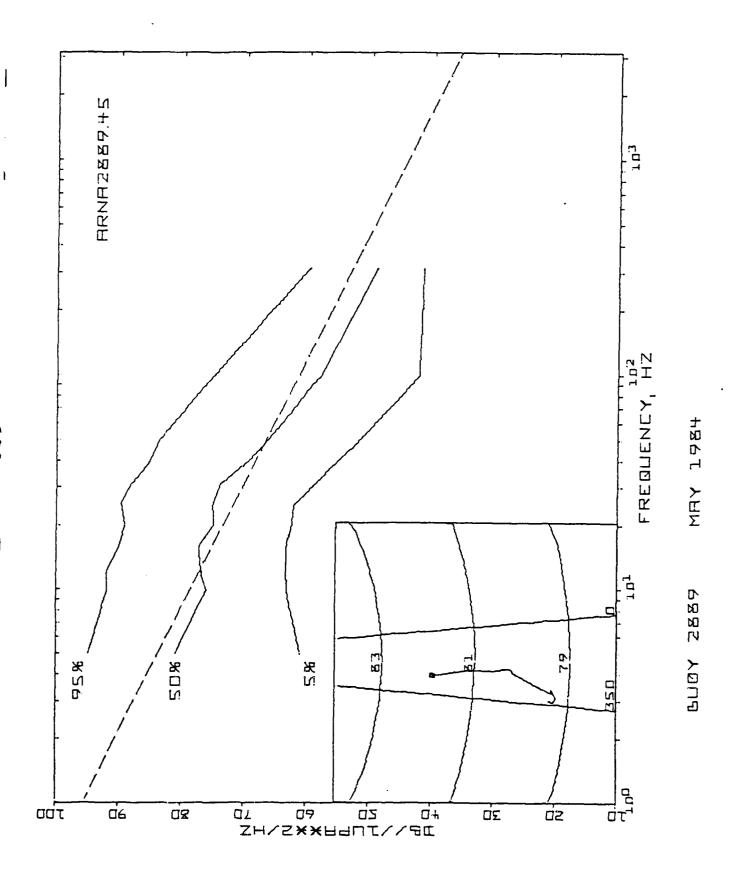
CUTPUT IN FILE ARNAZ889

DISPLACEMENT (N. MJ.): 74.995 NORTH: -72.901 EAST: -17.600 DIRECTION (TRUE): 193.592

THE NUMBER OF DATA SAMPLES IS 222

FREQUENCY		STD				Ξ	HEDIAN					
ZH	AVG	DEV	MIN	22%	10%			75%	206	796	MAX	Z
ပ က်	73.0	(?) ())	0. 0.00	ુ. ઉજ	59.0			78.0	#1 00	7 00	0.00	000
10.0	(%) (%)	6.0	50.4	000 000	9.09			72.0	76.5	78.1	7 78	0 0
12.5	70.5	6.5	51.9	0. 00 00	61.8			74.4	78.9	0.00	87.2	010
16.0	70.1	6.0	ල ල	60.3	62.5	65.7	8.69	74.	77.2	79.4	90.4	000
20.0	69.3	6.4	52.0	50.1	80.8			73.9	77.5	7.9.1	(0)	220
25.0	69.2	တ က်	53.4	60.0	61.9			73.4	76.7	78.1	0.4%	27.
31.5	67.0	٠. 4	50.7	ক ©©	e.09			70.7	74.3	0.17	79.0	
40.0	63.53	က တ	47.3	55.2	36. S			67.3	72.1	70.0	74.1	210
50.0	61.3	6.1	46.7	52.1	0. 01			4.5.4	0.7	72.7	97.9	0.00
100.0	56.1	7.3	40.1	47.9	44.6			61.9	64.6	66.7		0 20
315.0	47.6	4.2	29.3	41.4	41.4			40.) (r)		70.07	000
STOP								•) •)) !

33.1 Sec.



MONTH: MAY 84

BUCY: 2889

CUTPUT IN FILE ARNAZ889

DISPLACEMENT (N. MI.): 152.327 NORTH:-150.361 EAST: -24.396 DIRECTION (TRUE): 189.235

THE NUMBER OF DATA SAMPLES IS 248

								91.1 248					
		•						87.9 9					
	206	91.0	87.9	89.0	87.9	86.8	87.9	85.7	82.9	31.0	72.1	ල. සුව	
	75%	34.0	82.0	82.4	89.2	82.5	82.7	80.9	78.8	77.4	65.4	51.3	
MEDIAN								73.7					
Ξ	25%	74.7	89.8	70.9	71.4	62.9	6.7.9	65.6	61.3	58.6	51.0	48.2	
	10%	4.69	66.0	67.7	67.3	64.2	63.59	61.6	56.00	54.7	47.3	47.5	
	2%	60.7	63.1	63.0	63.2	62.2	61.9	53.4	55.2	51:4	41.9	41.4	
	ZIE							53.7					
310								·.				4.5	
	AVG	79.7	76.3	77.4	77.0	75.0	75.4	73.6	63.3	67.6	50.0	49.8	
FREGUENCY	HZ	o.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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DATA BY MONTHS

SEPTEMBER 1984

DAY	GMT	POSITION		DAY	CMT	POST	TION	
245	355	78.479 N 6.865	W	260	418	77.318 N	5.194	W
246	454	78,233 N 6,291	W	261	359	76.865 N	6.762	W
247	500	77,903 N 6,577	W	262	346	76.861 N	6.790	W
243	500	77,720 N 6,922	W	263	447	76.209 N	8,538	1-1
249	447	77.714 N 6.923	W	264	500	76.006 N	9,359	إما
250	459	77.506 N 7.268	W	245	471	75.825 N	9.944	W
251	4:4	77.398 N 6.648		266	4 %:€	75.555 N	10.687	W
252	409	77.463 N 7.078		267	450	75.552 N	10.703	W
253	357	77.383 N 7.453		268	411	74.808 N	12.898	W
254	500	77.380 N 7.675		249	357	74.812 N	12.897	W
255	500	77.378 N 7.661		270	346	74.156 N	14,000	4
256	500	77.567 N 7.003		271	454	74.002 N	14.440	W
255 257		77.653 N 6.390		272	459	73.992 N	_	W
				273	453		14.122	
258	436			* *	•	73.807 N		
259	447	77.555 N 5.832	W	274	439	/3.50/ N	14.127	44

BUOY ID 2889

JULY 1984

DAY	GMT	POSITION		DAY	GMT	POS	ITION	
183	500	78.310 N 10.960	W	199	500	78.584	N 11.944	W
184	444	78.357 N 11.433	W	200	447	78.627	N 11.328	W
185	431	78.357 N 11.438	W	201	436	78.695	N 11.269	W
186	419	78.327 N 11.691	W	202	424	78.789	N 11.424	W
187	459	78,362 N 11,741	W	203	411	78.876	N 11.661	W
188	353	78,377 N 12,664	W	204	357	79.091	N 11.281	W
189	341	78.368 N 12.546	W	205	345	79.125	V 11.534	W
190	459	78.386 N 12.554	W	206	410	79.118	V 11.590	W
191	500	78.387 N 12.564	W	207	500	79.111	N 11.556	W
192	445	78.450 N 12.497	W	203	500	79.107	N 11.517	W
193	434	78.527 N 12.962	W	209	436	79,151	N 11.163	W
194	422	78.624 N 13.081	W	210	424	79.247	V 10.908	W
195		78.614 N 12.727	W	211	. —	79.306	· · · · · ·	
196		78.589 N 12.539		212		79.300		• •
197		78.563 N 12.374		213		79.300		
198		78 580 N 12.024		227.0	. , .			.,

BUOY ID 2889

AUGUST 1984

DAY	GMT PO	SITION	DAY	OMT	POS	HΤ	ION	
214	335 79.519	N 12.272 W	230	433	80.416	N	6.007	ы
215		N 11.938 W	231	500	80.330	N	6,413	W
216		N 11.703 W	737	455	80.145	11	A. 408	W
217	440 79.754	N 11.304 W	গ্ৰেম	500	80.169	N	6,810	ذما
218	428 79.754	N 11.304 W	234	440	79.769	N	6.264	W
219	412 79,857	N 10.083 W	235	417	79.590	N	6.227	W
220	402 79.855	N 10.074 W	236	406	79.414	L1	6.570	W
221	347 79,825	N 9.224 W	237	459	79.301	N	6.677	W
222	425 79.870	N 9.118 W	238	444	79.064	IJ	A.943	W
223	500 79.905	N 8.516 W	239	500	78.943	N	6.645	W
224	453 80.030	N 8.554 W	240	458	78.904	L1	6.348	W
225	457 80.029	N 8.506 W	241	445	78,904	N	6.343	W
226	433 80.312	N A.925 W	242	433	78.994	N	5.833	W
227	416 80.277	N 6.244 W	243	4.25	78,958	N	6.354	W
228	404 80.235	N 5.983 W	244	406	78.957	N	4.345	W
222	500 20.307	N 5.842 W						

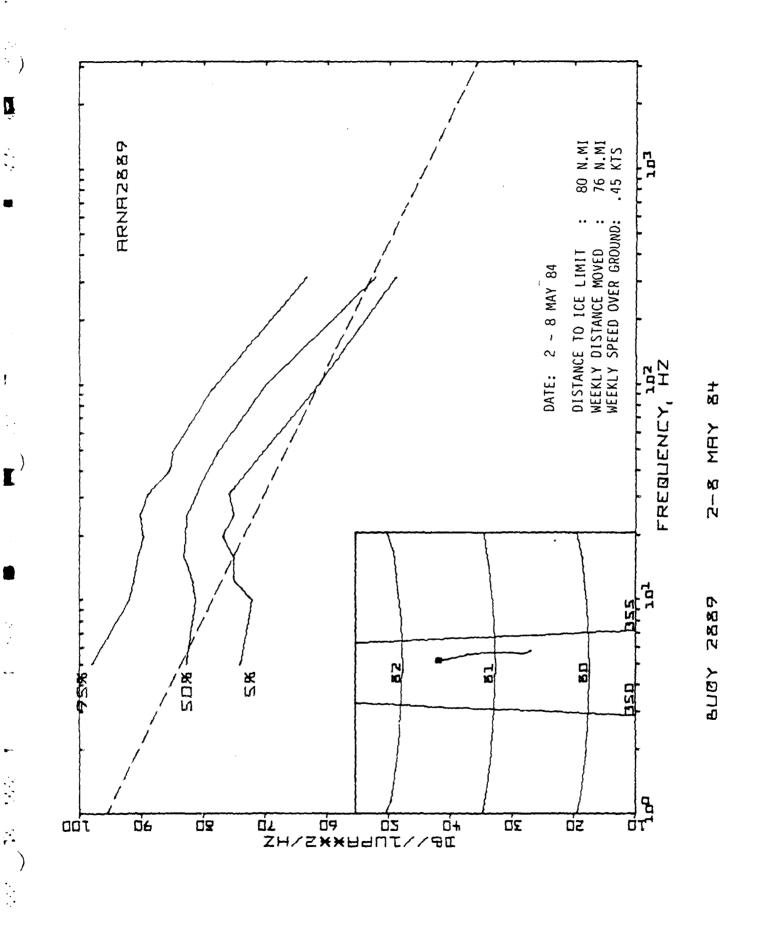
MONTH: 2-8 MAY 84 BUOY: 2889

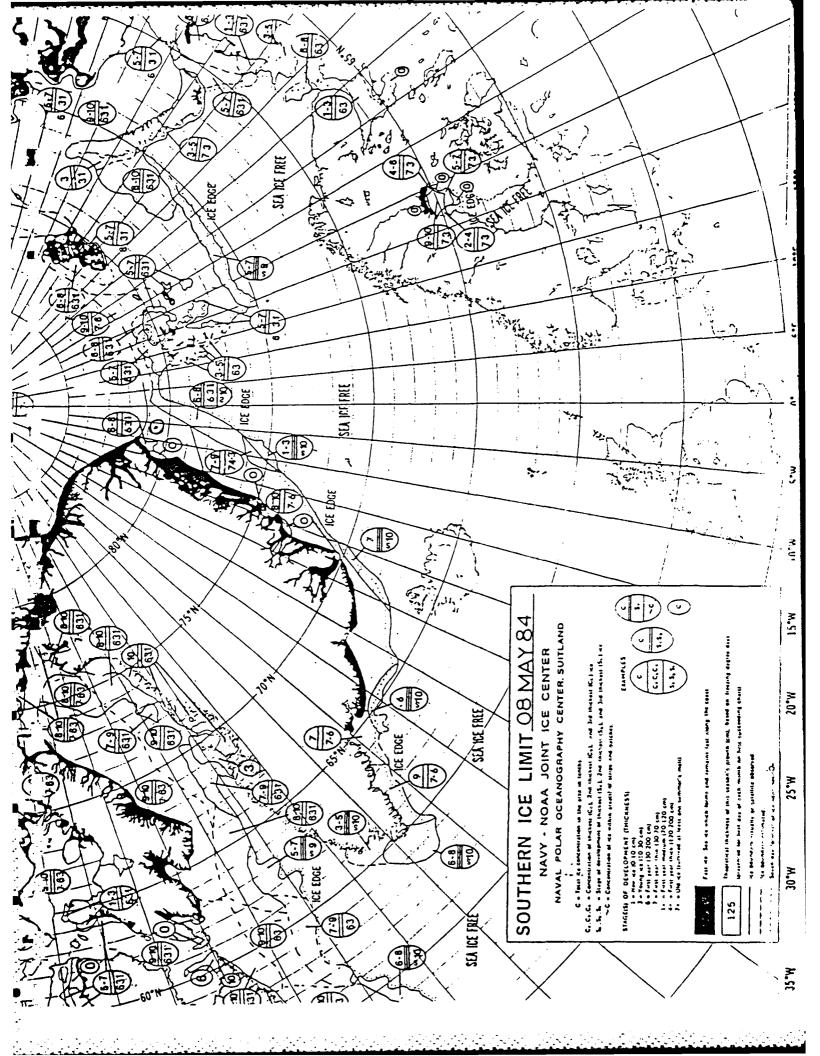
OUTPUT IN FILE ARNA2889

7.442 DISPLACEMENT (N. MI.): 75.607 NORTH: -75,240 EAST: DIRECTION (TRUE): 174.367

THE NUMBER OF DATA SAMPLES IS 56

FREGUENCY	STD				Σ	METITAN					
				10%			75%	20%	756	MAX	Z
ω				76.8			90.0	97.0	93.0	104.0	56
00				74.5			87.9	89.1	91.8	94.5	90 110
Ġ				76.4			38.4	0.06	90.0	97.8	90
4.				77.8			87.9	89.8	90.4	92.3	90
0:3	4.6	73.0	76.9	77.5	79.1	82.9	86.8	000	89.0	92.0	95 26
~ ~				77.5			87.9	0.00 0.00	90.2	92.0	90 0
82.2				76.8			86.3	6.78	es es es	91.1	55
6.0				73.3			10 00 00	03.4	85.4	84.4	9 €
7.6				71.4			91.9	84.1	84.3	36.0	(E)
4.4				61.9			74.9	77.4	78.1	79.9	9G
7.2				40°0			<u>୍</u>	61.4	63.3	64.9	90





MONTH: 9-15 MAY 84 BUOY: 2889

OUTPUT IN FILE ARMAZ389

DISPLACEMENT (N. MI.): 60.419 NORTH: -53.700 EAST: -27.689 DIRECTION (TRUE): 207.299

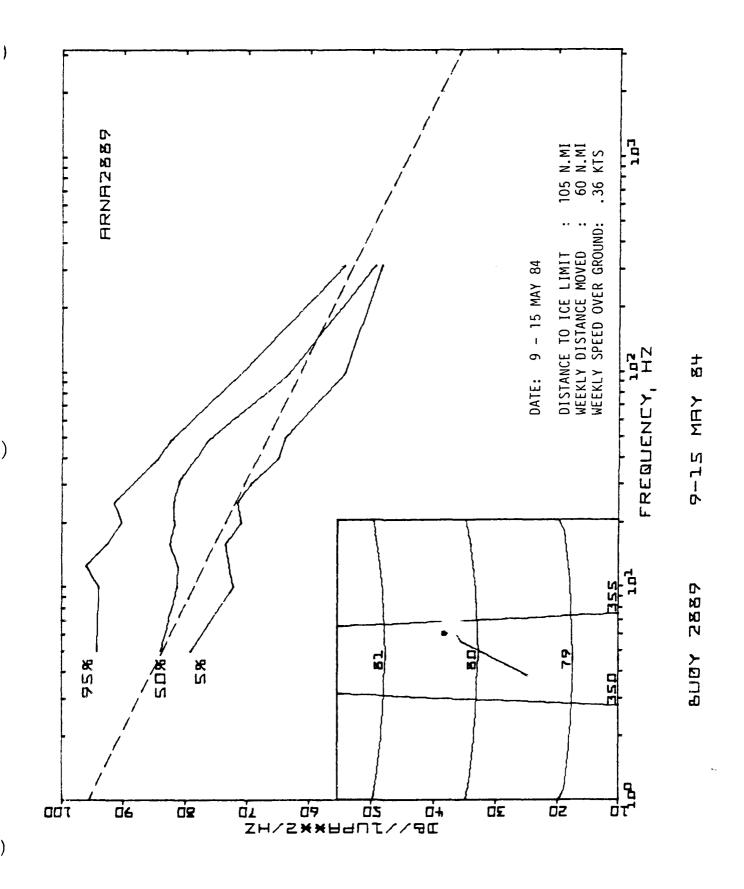
THE NUMBER OF DATA SAMPLES IS 56

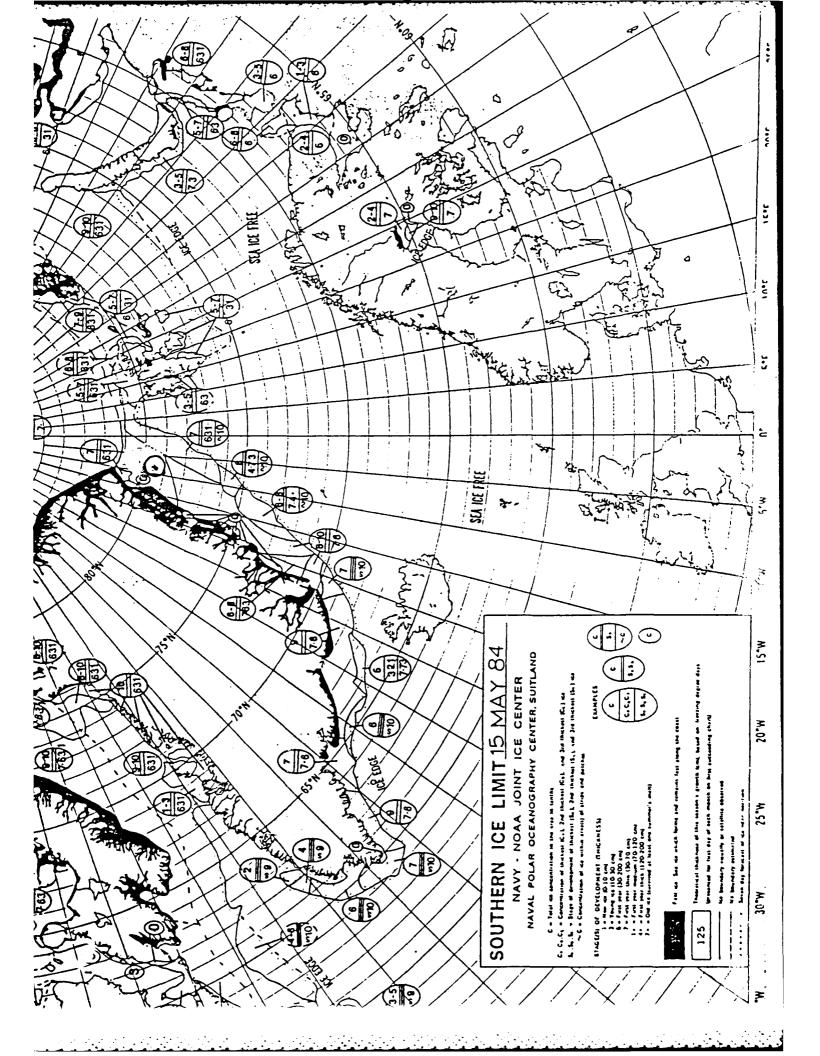
	z	90	95	56	ខ្លុំ	50	\$15 \$1	56	99	56	9 €	56	
	MAX	93.0	96.1	96.9	93.9	91.1	93.0	33° 30°	87.3	87.9	78,1	60.8	
	726	94.2	93.9	0.96	92.3	90.1	51.4	87.9	84.2	91.9	70.7	54.2	
	20%	92.8	9.1%	93.2	90.4	ლ დ	89.1	85.7	න. මෙ	81.0	68.89	52.1	
	75%	0 0 0	87.3	87.2	86.3	36.0	86.0	84.4	81.3	79.9	66.1	50.3	
YED LAN	20%								78.2				
Ī	25%	82.2	77.0	78.0	78.3	75.5	75.9	76.8	72.1	63.9	60.1	48.2	
	10%	80.7	74.5	73.7	73,3	72.0	72.1	70.7	65.5	64.6	56.9	48.2	
	5%	79.0	72.0	72.8	73.3	20.8	71.4	68.8	64.8	69.09	54.0	43.2	
	ΝIΝ	76.1	71.0	70.9	71.1	69,0	70.7	63.2	63.2	61.3	න. කූල	47.5	
sto	DEV	တ (၈	6.9	7.0	ريا م	6.0	ტ. ე	5.7	6.4	ۇ. ئ		2.4	
	AVG	85.7	82.4	32.3	82,2	80.9	81.6	79.8	76.8	74.9	63.3	50.0	
FREGUENCY	ZH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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MONTH: 16-22 MAY 84 BUDY: 2889

CUIPUT IN FILE ARNA2889

-8.767 DISPLACEMENT (N. MI.): 15.301 NORTH: -12.540 EAST: DIRECTION (TRUE): 214.983

THE NUMBER OF DATA SAMPLES 1S 56

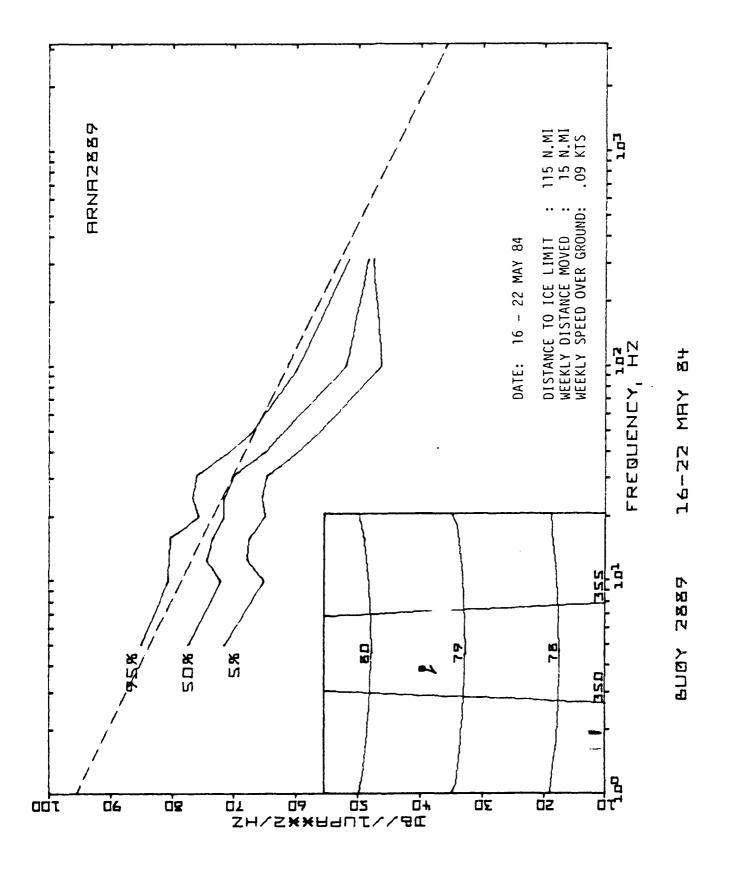
	=	Z	<u>ي</u> س	1	i Di	Ó	۷ ن) / ! !		O D	\ U	ì	i) O	ν <u>΄</u>) i	ဂိ	۲. تا	9	
	× 0 × 0	< -	6.16	1 70	; () †	84.4	0.70		7.	000	. (7.4	73.0	. (۶۰.۷ د	- 0	•	
	\ 0		္ က	A 08) (0.00	0 0 0	75.5	1 (\.o.\	75.9		0.0	46.7		4.7	(C))	
	200		00,00	79.0	100	/ . / /	70.0	74.8	0	,	74,3	0	07.4	66.1	· (×	40,0	•	
	76.7		80.7	75.9	0 72	N . 0	0°.0.∕	73.9	0 0 1	N	72.0	6 77	5.0	დ. დე	1	\ . !	40,0	!	
EDIAN								71.4					-	_		•	-		
Ξ	25%	1	/ 4 - /	69.2	20.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	71.7	67.9	67.9		67.0	0 04	0	00 00 0	0)	০. / 4	ı	
	10%	(//	67.8	0 07) ·	% 000	66.0	44.7		64.7	40.7		(N. V.	0.07	•	47.5		
	%		71.4	65.0	67.7		e./9	64.3	A.E. 4	,	64.4	い。 で い			46.1) (47.5		
	MIN	0	N . X ?	38. U	61.1	. (N . 50	80.09	61.9	. (60.3	0.00		200	29.4		41.4		
STD	DEV																Z Z		
	AVG	0 77	0	72.7	74.3	100	1.3.1	71.1	71.8		9	65.1		01.0	52.9	. () ()		
FREGUENCY	HZ	C U) ·	10.0	12.5	\(\frac{1}{2}\)	70.0	20.0	25.0		01.0	40.0	() () () () () () () () () ()	0,00	100.0	0.00	310.0	SIOP	

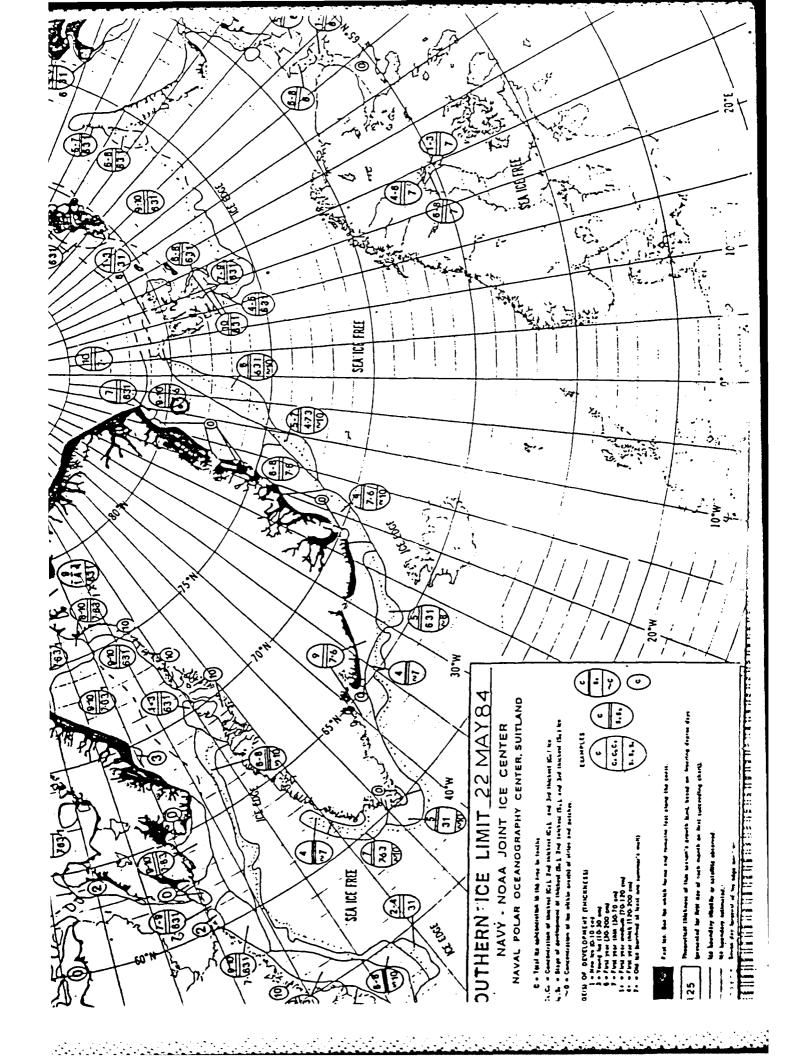
<u></u>

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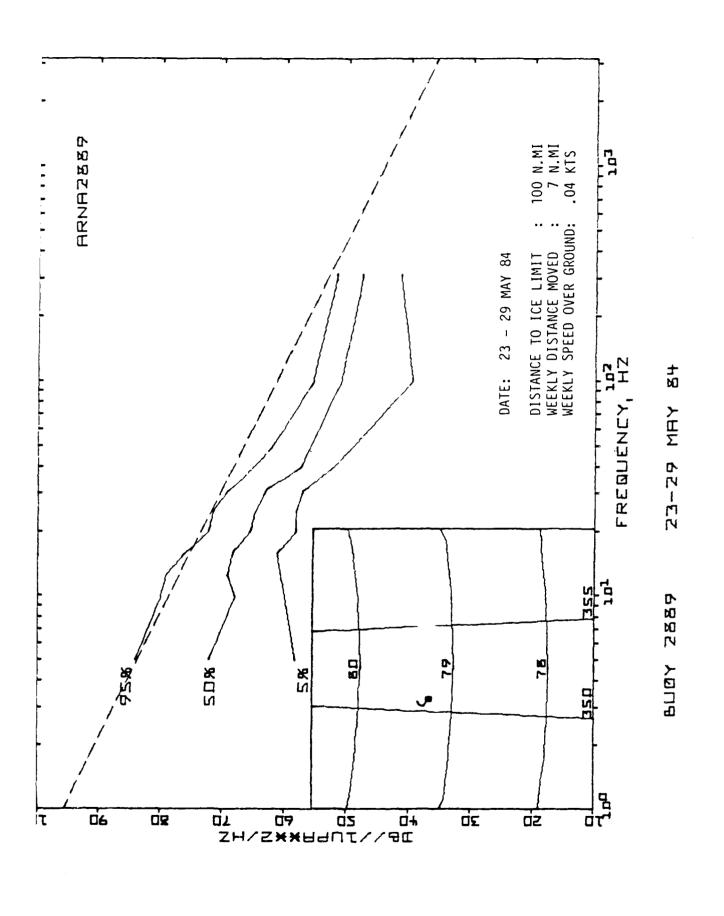
MONTH: 23-29 MAY 6-- BUDY: 2889

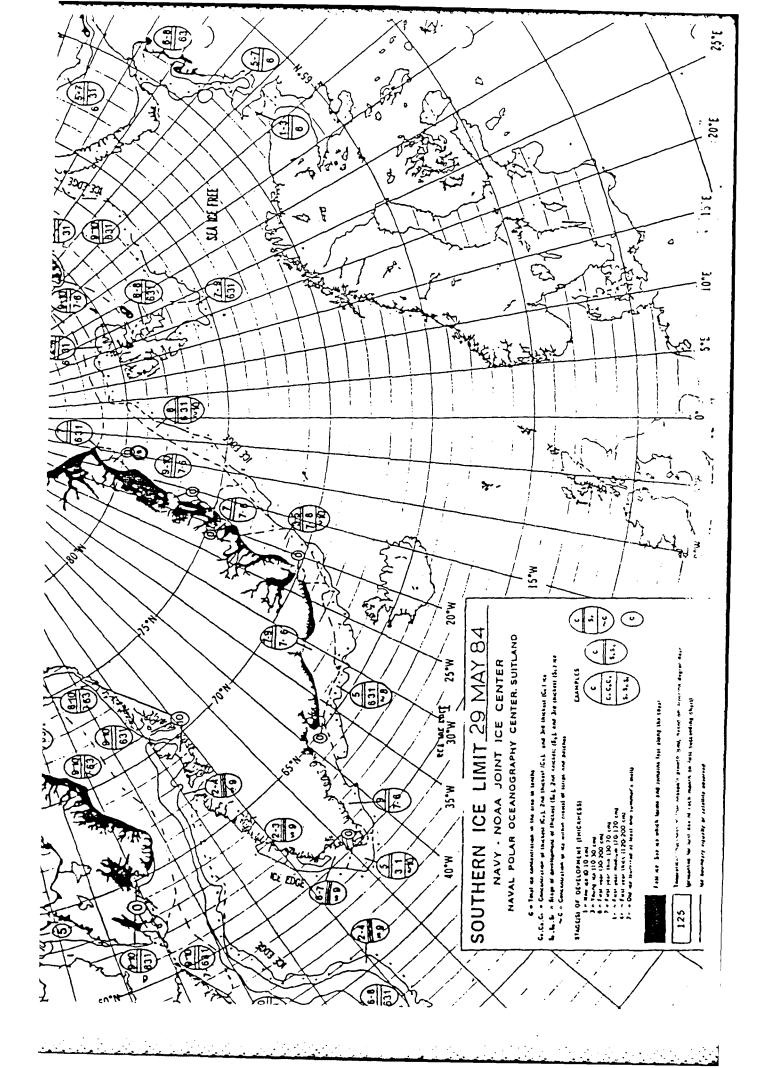
CUTFUL IN FILE ARNA2839

-1.782 7.080 EAST: DISPLACEMENT (N. MI.): 7.301 NORTH: DIRECTION (TRUE): 345.852

THE NUMBER OF DATA SAMPLES IS 56

	ИАХ	96.0	83.1		81.1	81.1 82.5	81.182.577.5	81.1 82.5 77.5 73.9	81.1 82.5 77.5 73.9 69.8	81.1 82.5 77.5 73.9 69.8 68.3	81.1 82.5 77.5 73.9 69.8 68.9	81.1 82.5 77.5 73.9 69.8 68.9 62.9	9 81.1 56 0 77.5 56 4 73.9 56 8 69.8 56 9 62.9 56 5 62.9 56
				-			,	,	,				7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
				•									7.60 6.00 7.60 7.60 7.60 7.60 7.60 7.60
	75%	74.7	71.0	70.9		71.1	71.1	71.17 67.9 67.9	71.1 67.9 67.9 64.7	71.1 67.9 67.9 64.7 60.7	71.1 67.9 67.9 64.7 60.7 59.4	71.1 67.9 67.9 64.7 60.7 59.4	71.1 67.9 64.7 660.7 7.9 61.8 48.1 83.2
MEDIAN			_	_			_	_	_	-	-	-	689 67.5 67.7 67.2 60.0 60.0 60.0 60.0
Σ	25%	62.2	63.1	64.0		64.4	64.4 62.2	64.4 62.2 62.7	64.4 62.2 62.7 59.7	64.4 62.2 52.7 59.7 55.2	62.2 62.2 62.2 59.7 55.2 7.3	64.46.69.44.46.69.69.44.46.69.69.69.69.69.69.69.69.69.69.69.69.69	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	10%	59.0	61.2	61.8		61.9	61.9	61.9 59.1 60.0	61.9 59.1 60.0 57.6	61.9 59.1 60.0 57.6 53.3	61.9 59.1 60.0 57.6 53.3	61.9 59.1 60.0 57.6 53.3 50.7	61.9 59.1 60.0 57.6 53.3 50.7
	2%	0 0 0	59.8	80.8		61.1	61.1 53.0	61.1 53.0 53.1	61.1 53.0 58.1 56.8	61.1 53.0 58.1 56.8	61.1 53.0 53.1 56.3 43.1	61.1 53.0 53.1 56.8 43.9	61.1 58.0 58.1 56.8 52.1 57.1 4.8.9
	ΜJN	57.4	53.1	53.9		129.4	59.4 56.9	59.4 56.9 57.5	59.4 56.9 57.5 53.7	579.4 56.9 57.5 53.7	79.4 56.9 57.5 53.7 47.9	79.4 56.9 57.5 53.7 47.9	79.4 70.7 70.7 70.7 70.7 70.7 70.7 70.7 70
STD													4 4 4 6 4 4 9 6 8 6 0 6 0 0 0 0 0
	AVG	70.6	68.5	69.1		63.3	63.3 65.3	65.3 65.3	63.3 65.3 65.0 62.6	68.3 65.3 65.0 62.6 58.1	68.3 65.3 65.0 62.6 58.1	68.3 65.3 65.0 62.6 58.1 56.1	68.3 65.3 62.0 62.6 58.1 56.1 46.4
FREQUENCY	ZH	O. က	10.0	12.5		16.0	16.0 20.0	16.0 20.0 25.0	16.0 20.0 25.0 31.5	16.0 20.0 25.0 31.5	16.0 20.0 25.0 31.5 50.0	16.0 20.0 25.0 31.5 40.0 100.0	16.0 20.0 25.0 31.5 40.0 50.0 315.0





MONTH: 30MAY-5 JUN 84 BUDY: 2889

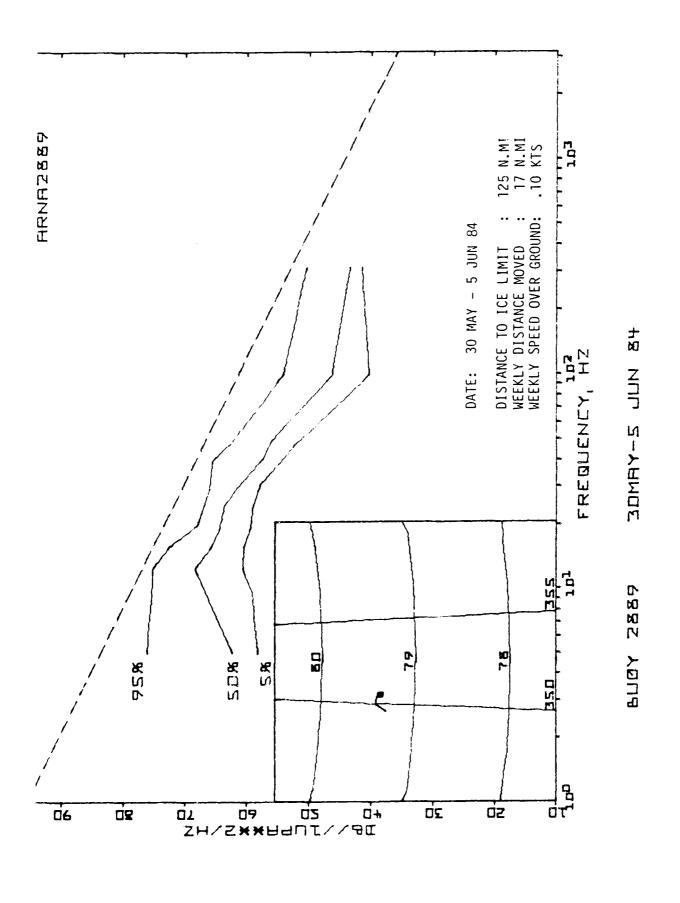
CUTFUT IN FILE ARNA2839

-8.340 EAST: -14.614 DISPLACEMENT (N. MI.): 16.826 NORTH: DIRECTION (TRUE): 240.316

THE NUMBER OF DATA SAMPLES IS 56

ម្រាស់ស្នេសស្នេសស ស្រែសស្នេសស្នេស ស្រែសស្នេសស្នេសស
AAX 81.2 70.4 70.9 70.9 70.7 70.1 70.1 70.1
95% 75.1 75.2 75.2 72.3 67.9 65.7 65.7 65.7 65.7 65.3
90% 76.1 73.9 73.9 72.3 67.0 63.7 63.2 48.8
75% 70.1 70.1 70.1 71.9 65.4 65.4 67.8 67.8 61.8
MEDIAN 502.02 66.02 66.03 66.04 66.03 67.03 60.03 60.03 60.03
200 200 200 200 200 200 200 200 200 200
10% 50% 50% 50% 50% 50% 50% 50% 50% 50% 5
588 0 588 0 589 0 500 0 500 0 501 0
M M M M M M M M M M M M M M M M M M M
01D 0EC 7.20 7.40 7.40 7.40 7.40 7.40 7.40 7.40
AVG 65.9 66.7 66.7 63.7 63.7 63.7 64.9
FREQUENCY HZ 5.0 10.0 12.5 16.0 20.0 25.0 25.0 31.5 40.0 31.5 315.0 STOP

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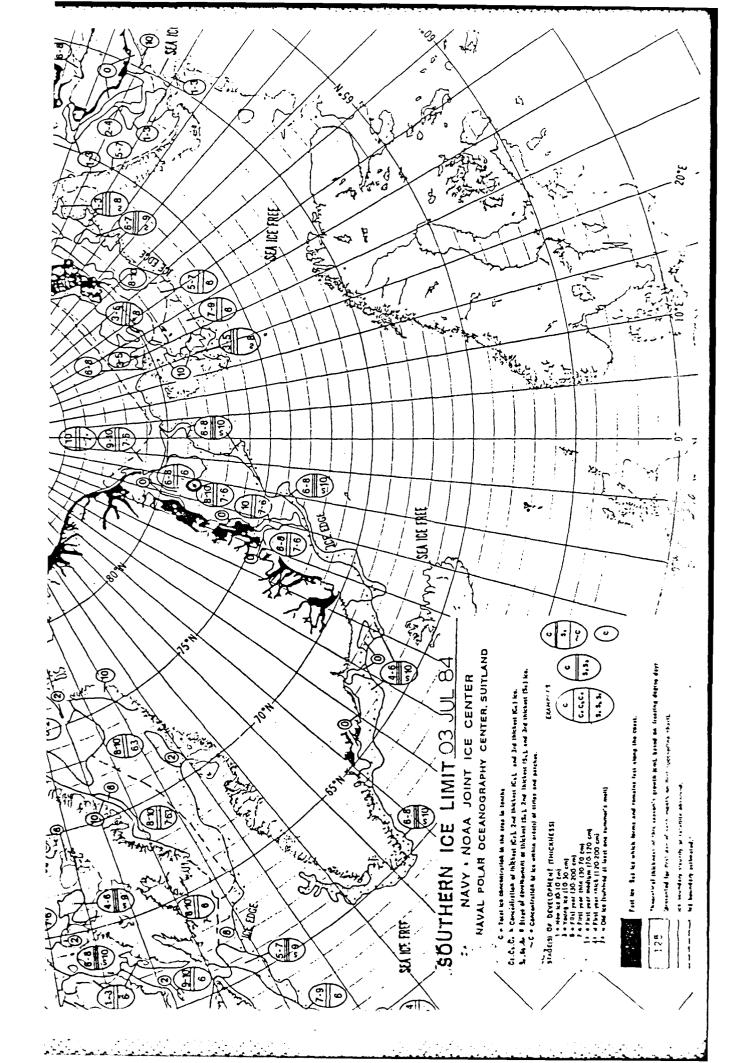
MONTH: 4-10 JUL 84 RUGY: 2889

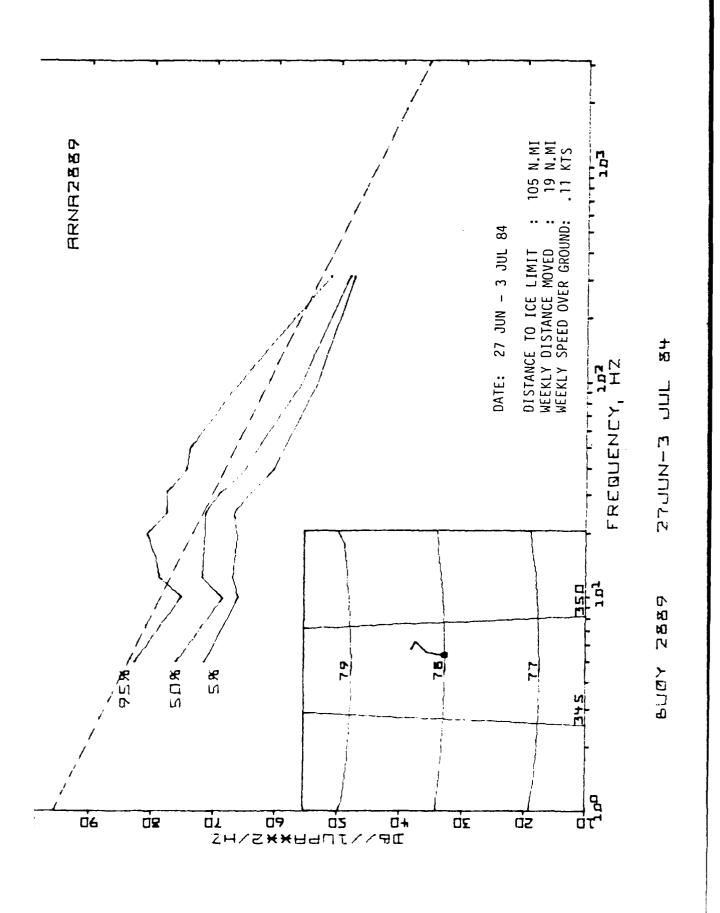
OUTPUT IN FILE ARNAZS89

DISPLACEMENT (N. MI.): 19.450 NORTH: 12.000 EAST: +15.306 DIRECTION (TRUE): 308.069

THE NUMBER OF DATA SAMPLES IS 55

	2	10 10	មា មា	54	ម7 ម7	E.	មា មា	ti)	មា មា	ທີ: ພັ:	រា រា	មា មា	
	MAX	91.5	0.10	78.0	81.9	78.0	79.4	78.4	78.8	74.9	68.9	64.9	
	796	80.7	72.0	72.8	76.5	74.8	77.5	76.8	72.7	71.4	65.4	ω. 15	
	206	78.0	71.0	71.9	75.1	73.9	75.9	74	70.8	6.89	69.0	49.3	
	75%	76.1	67.8	70.9	72.3	72.0	73.9	71.6	69.2	66.7	60.7	48.8	
MEDIAN			6.99										
Σ	727	71.9	65.0	67.7	69.1	63.0	8.69	67.0	63.2	61.3	න . න	47.5	
	10%	70.8	63.8	66.8	66.3	66.0	67.9	69.0	60.7	59.4	54.0	47.5	
	% 5	70.1	69.8	66.3	66.3	64.8	66.7	69.9	0 0 0	59,4	54.0	47.5	
	MIN	69.4	63.2	8.99	63.8	62.7	63.8	62.8	57.2	53.6	53.3	47.5	
STD	DEV	6.4	3.6	2.4	භ ලද		4.0	3.9	4.4	4.0	4.0	5 0	
	AVG	74.6	67.5	6.69	70.8	70.4	71.9	63.0	66.2	64.1	53.4	40.00	
FREGUENCY	Н7.	0.0	10.0	12.0	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





MONTH: 27JUN-3 JUL 84 RUOY: 2889

OUTPUT IN FILE ARNAZERS

0.616 DISPLACEMENT (N. MI.): 18.850 NORTH: 18.840 EAST: DIRECTION (TRUE): 1.857

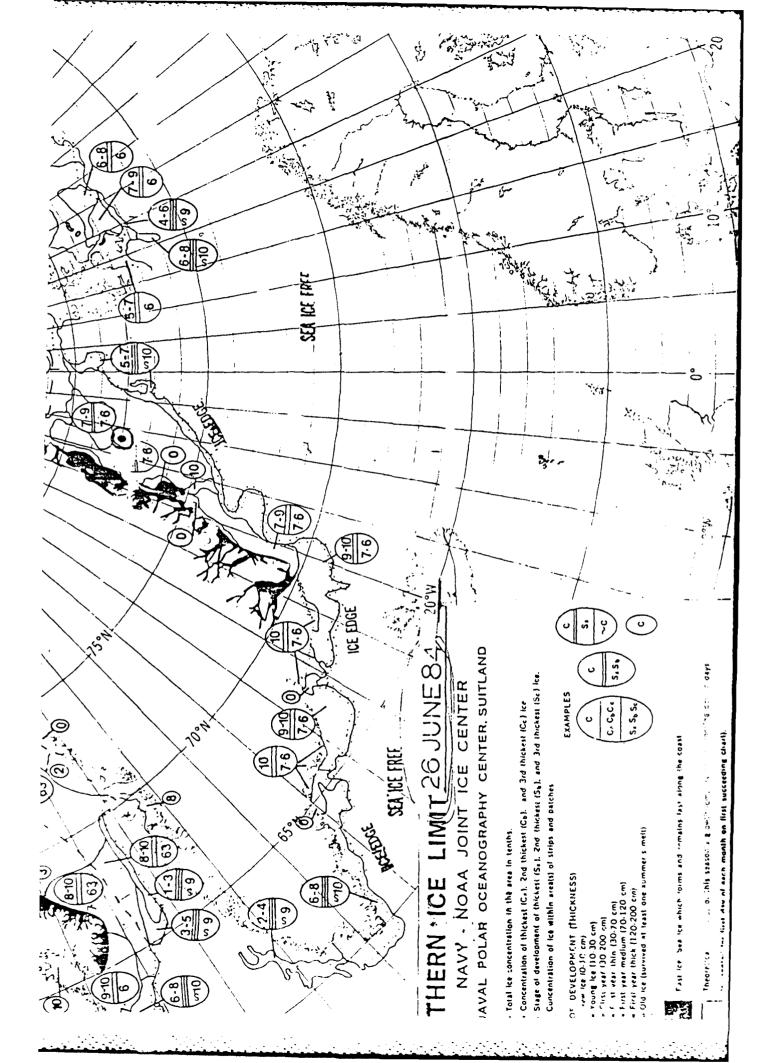
THE NUMBER OF DATA SAMPLES IS 55

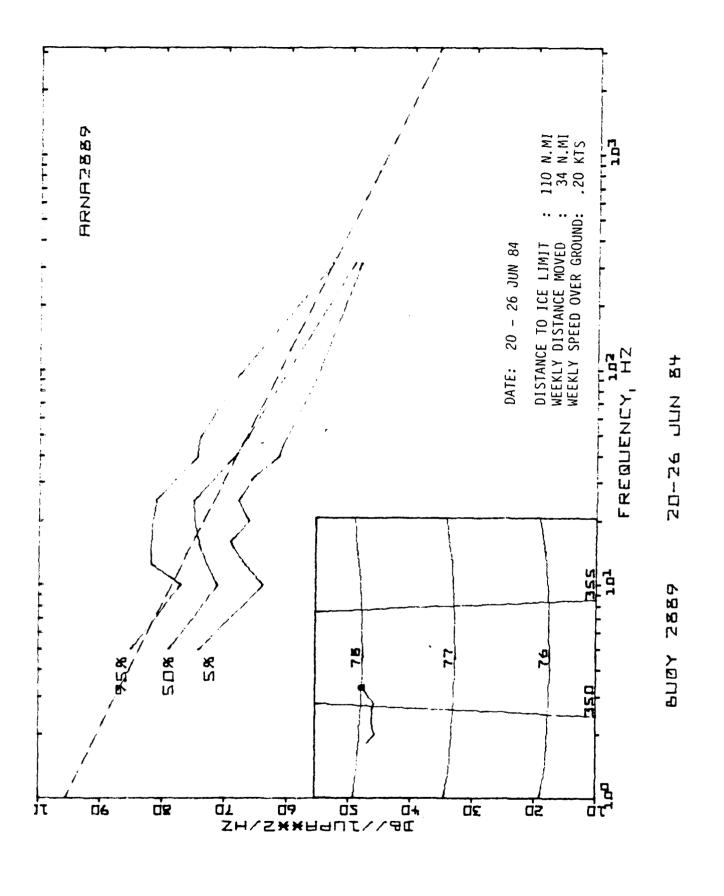
FREQUENCY		STD				Z	VET I AN					
Н7	AVG	DEV	MIN		10%	252		7=1	20%	796	MAX	z
0.0	76.3		70.1		71.9	73.9		78.0	79.9	00 00 00 00	0.00	មា មា
10.0	69.7		65.0	66.0	66.0	6.6.9	68.5	71.0	73.8	75.2	89.1	的 的
12.5	72.1		62.9		66.8	63.4		75.1	78.0	78.9	34.0	54
16.0	72.6		66.3		67.3	8.69		75.1	77.8	79.4	90.4	54
20.0	72.0		66.0		66.0	68.89		74.3	78.0	80.8	87.6	0.4 4
25.0	71.8		65,4		67.3	68.89		73.9	75.9	77.5	84.8	្រ ហ
31.0	70.0		62.8		65.6	67.0		71.6	75.9	77.6	84.4	មា មា
40.0	66.2		00 00 00		60.7	63.2		68.3	73.3	74.3	80.4	54
50.0	64.3		57.8		59.4	60.7		67.9	71.4	73.9	75.8	10 10
100.0	50°.1		დ. დ		ල ල හ	54.7		60.1	65.4	66.1	68.9	្រ ព្រ
315.0	48.7		47.5		47.5	47.5		48.3	50.3	51.0	04.0	ម មា
STOP												

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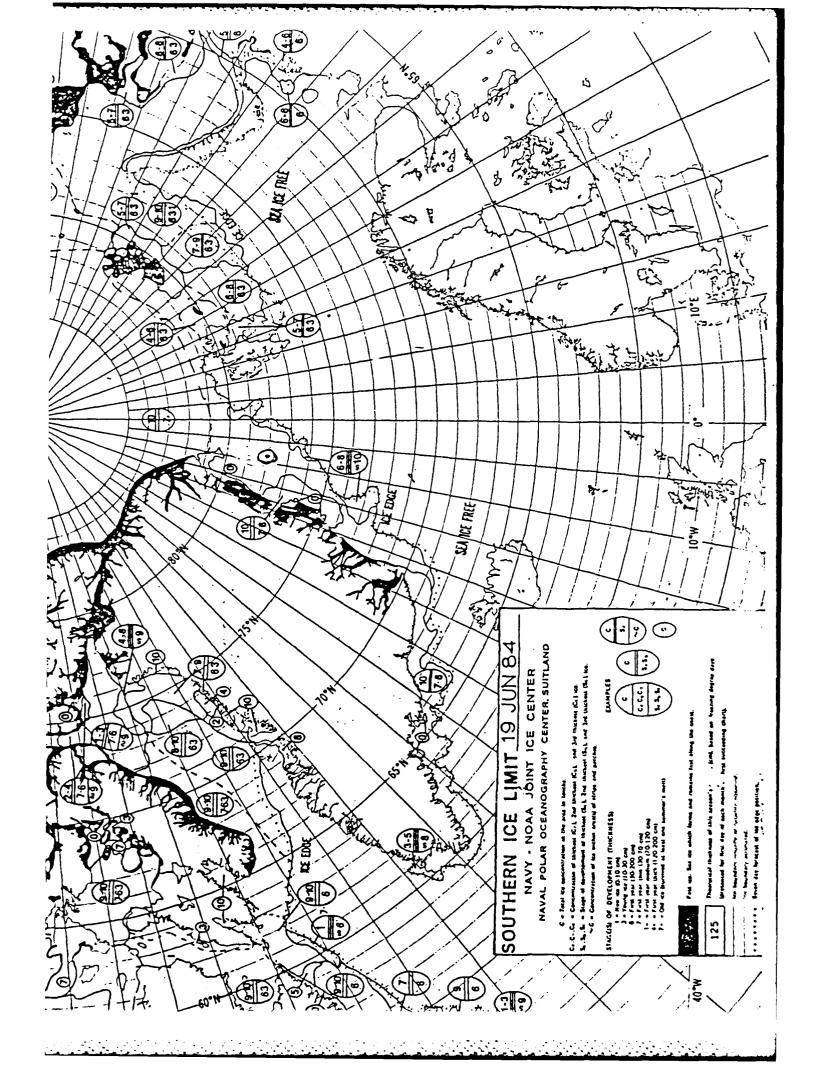


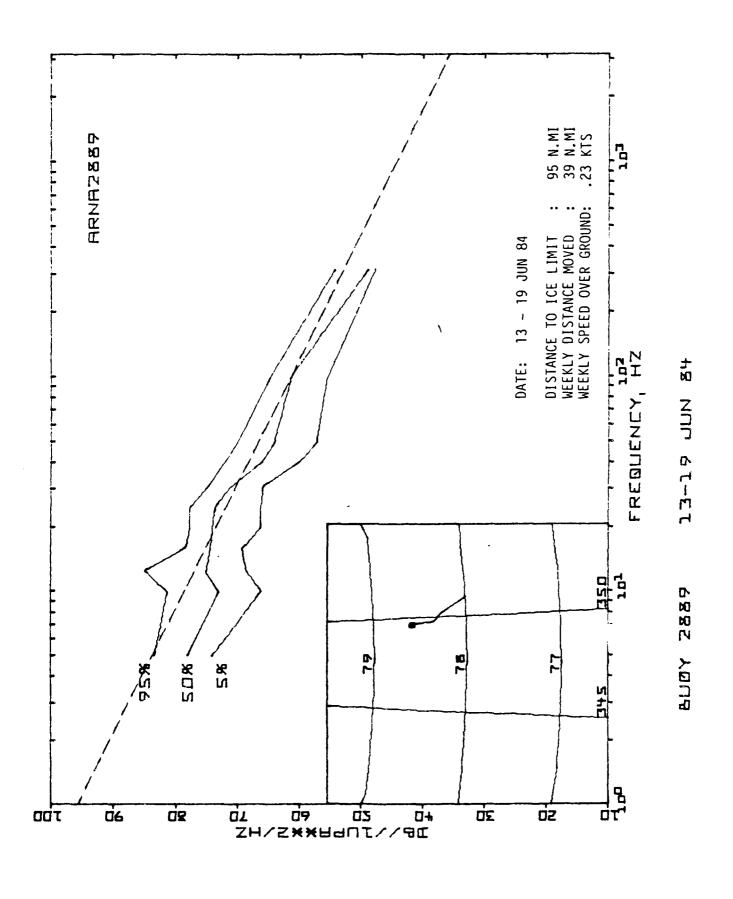
MONTH: 20-26 JUN 84 BUDY: 2889

CUTPUT IN FILE ARNA2889

1.140 EAST: -34.337 DISPLACEMENT (N. MI.): 34.356 NORTH: DIRECTION (TRUE): 271.868

	2	5	51	20	(N	55	Ē	22	ij	52	51	51	
	MAX	85.9	83.1	84.9	87.9	89.5	86.0	79.0	76.1	87.9	68.9	70.9	
	796	35.0	77.0	81.8	81.9	81.6	81.0	77.6	74.3	73.9	67.3	52.8	
	206	33.4	77.0	30.5	80.3	80.0	78.8	76.8	74.3	73.9	66.7	52.8	
		•	•	•	-	•		-	73.3	•	_		
YFD! AN	50%	79.0	71.0	72.8	74.2	74.8	75.0	71.6	68.3	66.1	60.1	49.3	
Σ									65.5				
	10%	73.9	64.4	67.7	69.1	66.0	68.9	67.6	62.3	60.1	55.00	48.2	
	% S	73.9	63.8	66.3	69.1	66.0	67.9	65.6	61.3	60.1	54.7	48.2	
	ZΙΣ	73.0	62.5	8.99	65.7	64.2	66.1	65.8	60.7	53.6	54.0	47.5	
STD	DEV	ი ი	4.6	6.9	4.6	5.7	4.3	9°9	4.5	ن ن	4.2	න ල	
	_	•	•	•	•		-	•	88.8	_	-		
FREQUENCY	ZH	o. n	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





MONTH: 13-19 JUN 84 BUDY: 2889

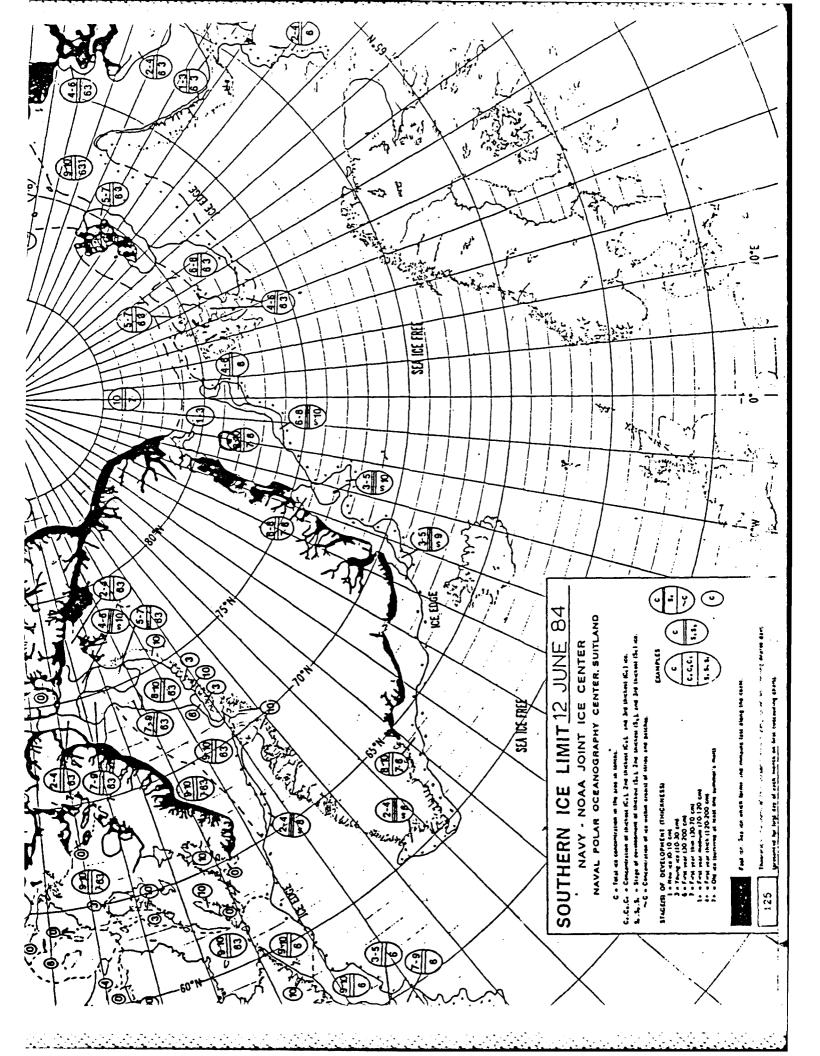
OUTPUT IN FILE ARNA2389

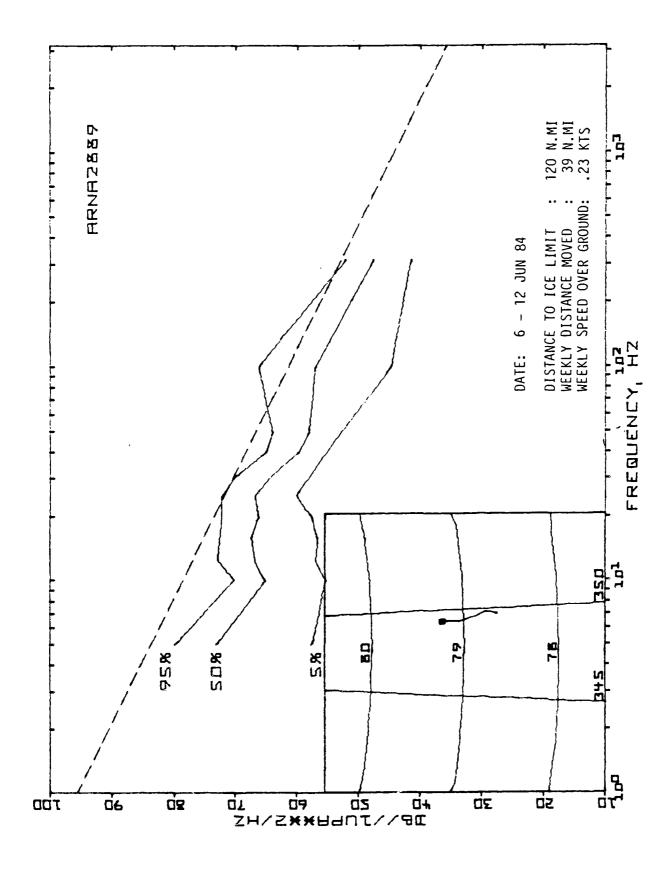
DISPLACEMENT (N. MI.): 39.461 NORTH: -35.339 EAST: DIRECTION (TRUE): 153.591

THE NUMBER OF DATA SAMPLES IS 46

	2	47.	. 4 5	4	7.	47	44.	4	7.5	4.5) L	7 4) r
	MAX	(C)	86.6	87.2	79.4	7.9.1	0.100	79.0	74.3	73.3	74.0		•
	756	6.0	0.10	84.9	78.3	77.5	77.5	74.3	72.1	6.9	6.4.6	0 4	•
	20%	32.2	78.1	0.08	78.3	76.9	75.9	73.7	70.8	6.87	00.00	200	
	75%	79.9	76.5	79.7	75.8	75.5	75.0	73.0	69.27	66.7	62.0	50.3) ,)
HELLAN	50%	73.0	72.9	75.1	74.2	73.9	73.4	70.7	66.1	63.8	61.3	0.00	•
Ī	25%	75.5	69.2	71.9	71.7	72.0	70.7	63.2	64.0	60.7	50.0	48.2	1
	10%	74.7	67.8	69.7	70,5	69.5	67.3	66.3	61.3	60.1	00 101 101	48.2	! !
	2%	73.9	66.0	63.4	69.1	0.99	66.1	65.6	60.1	56.9	55.3	47.5	
	MIN	53.9	50.4	54.4	54.2	52.0	53,4	50.7	47.3	46.7	42.9	29.3	
STD	DEV	₽. ©	60 65	6 6	4.0	4.1	4.4	4.1	4 5	4.5	8.0	3.7	
	AVG	77.7	73.0	76.0	73.7	73.2	72.4	70.1	66.2	63.9	60.4	49.2	
FREGUENCY	HZ	၀ ၈	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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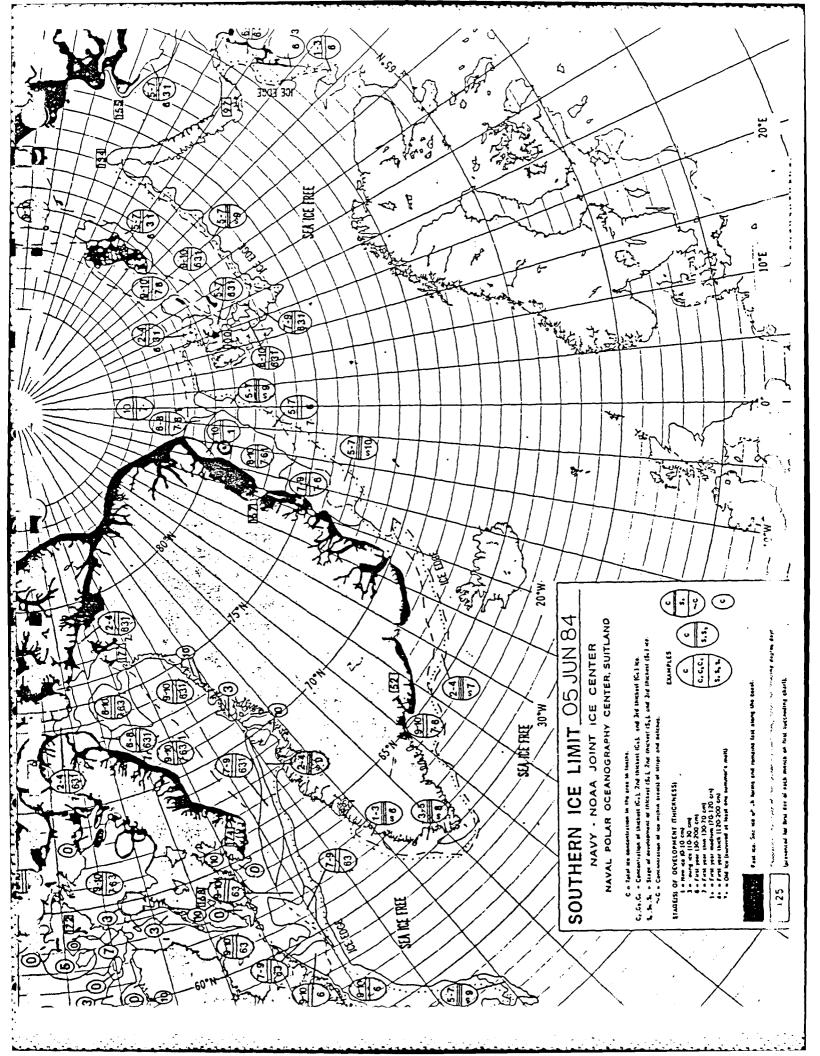
路中 4-12 JUN

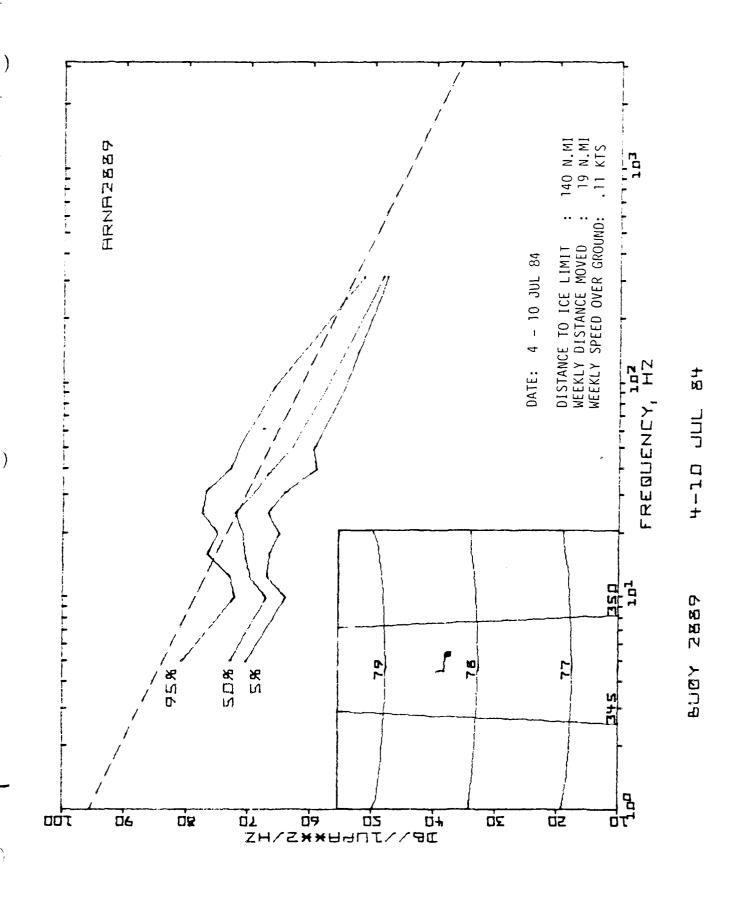
2889 BUOY: MONTH: 6-12 JUN 84

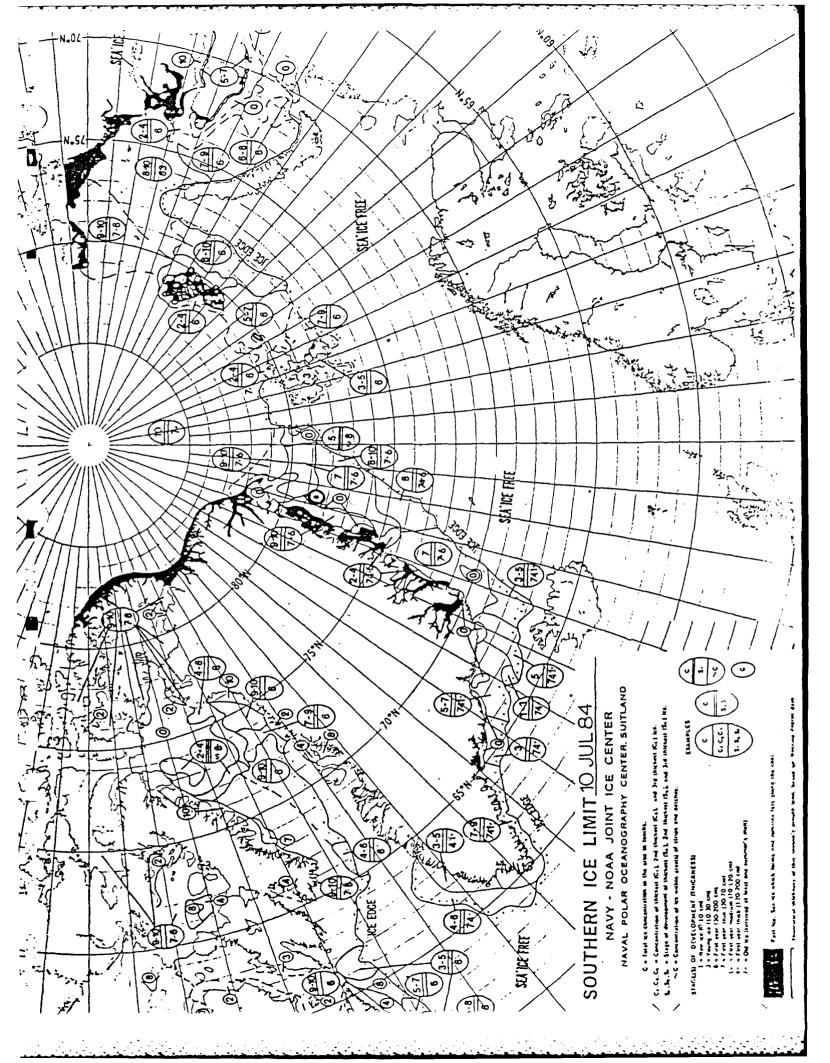
CUITFUT IN FILE ARNAZ889

3,237 DISPLACEMENT (N. MI.): 39.015 NORTH: -38.831 EAST: DIRECTION (TRUE): 175.257

	2	i e) ()) ()	0 () 0 V	9 0 11 C) () !	9 (0 9 U	9 (9 8	0 (0 U	y c	ე (ე ს	9 (9 L	n D
	MAX	0	400	0 7/	72.0	7. 7.	, u	7.57	0 - 0	7.77	0 0	, , , , , , , , , , , , , , , , , , ,	0 . /)
	7,56	70.07	70.7	40.07	0.00	200	7 6.0	7 07	0 0 0		7.4		T • V)
	706	78.0		20.07	71.	70.7	71.4	. 0	4 6	60.07	· · · · · · · · · · · · · · · · · · ·		•
						67.0							
FOIAN	50%	73.0	0.5	0,000	67.3	66.0	66.7	63.8		0.75	· · · · · · · · · · · · · · · · · · ·	47 5	•
Σ	25%	59.0	60.6	S.09	83	62.9	63.0	61.9	. 00 . 95 . 10 . 10	54.9	47.9	41.4	
	10%	0.00 0.00	30	56.9	က တ က	0. 0.0	61.0	53.4	56.1	53.3	45.4	41.4	•
	5%	57.4	55, 2	56.9	56.50	57.5	60.0	57.6	55.2	52.7	44.6	41.4	1
						54.8							
STD	DEV	0.0	4.9	ი ს	4.8	4.4	4.0	დ დ	න ල	6.	7.9	6,0	
	AVG	69.1	63.9	65.4	65.9	65,3	66.3	63.9	60.0	53.1	55.4	46.0	
FREQUENCY	H7	o ស	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





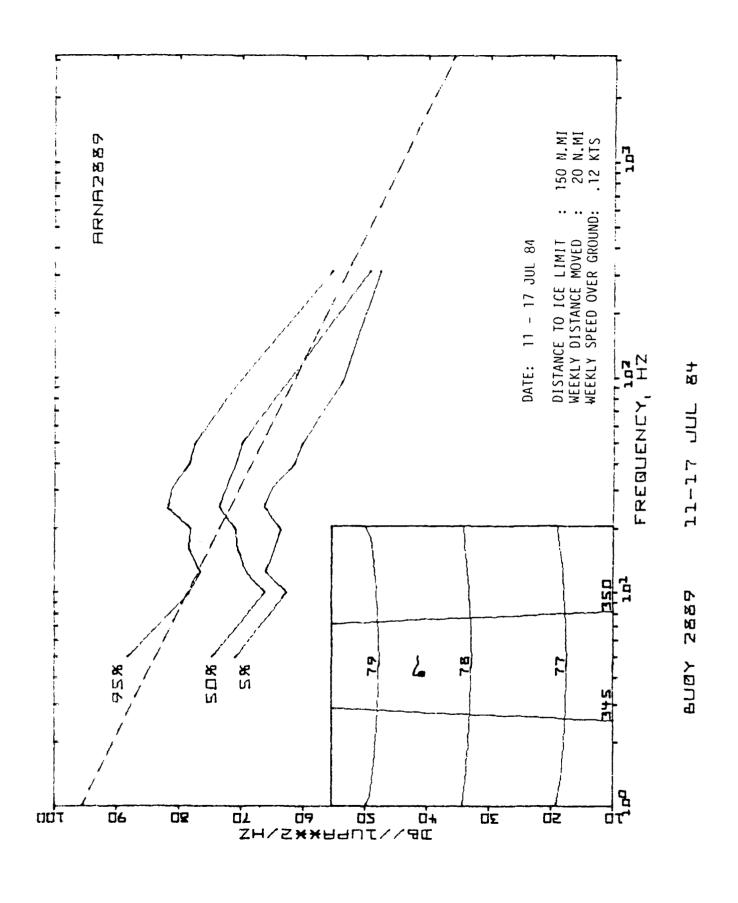


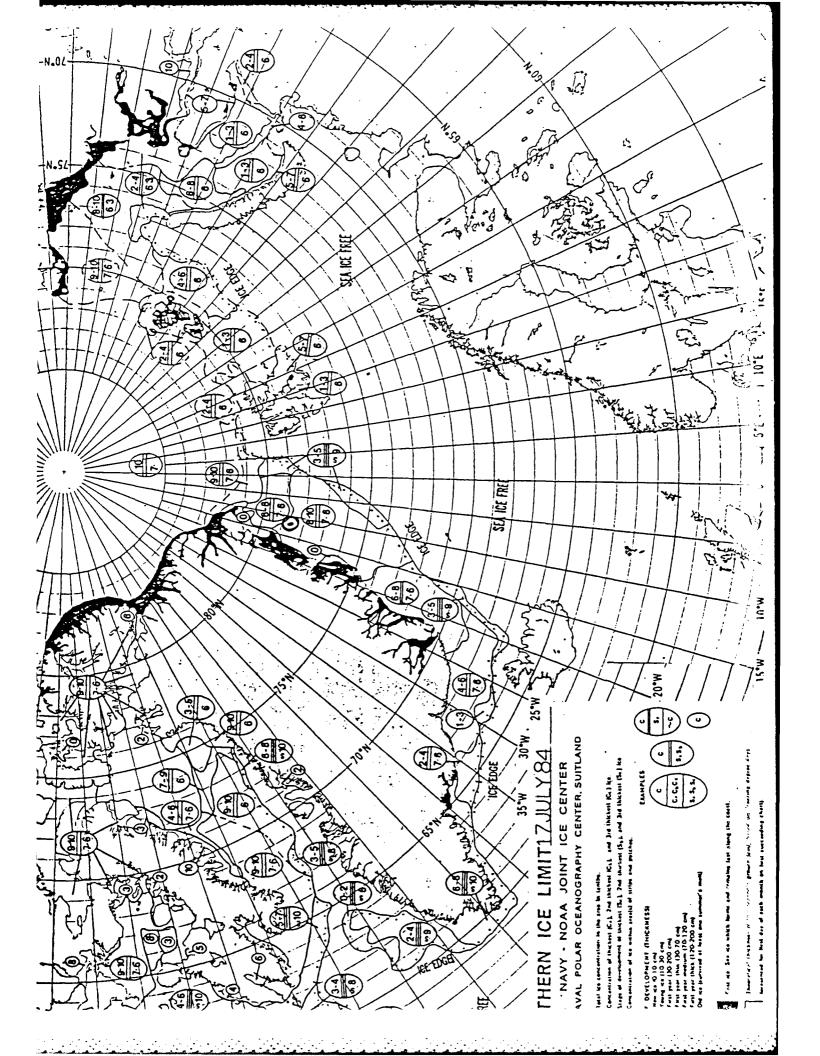
MONTH: 11-17 JUL 84 RUDY: 2889

OUTPUT IN FILE ARNAZSS9

19,512 6.000 EAST: DISPLACEMENT (N. MI.): 20.414 NORTH: DIRECTION (TRUE): 72.903

	z	49	49	O.	(N	Į,	3	16	(N)	S S	88	(N 10)	
	MAX	0.96	90.1	87.2	84.4	89° 18	87.0	84.4	80.4	79.9	70.7	55.3	
	796	38.2	78.1	76.4	78.3	78.0	81.9	80.9	78.2	77.4	69.0	00. 00.	
	20%	83.4	72.9	74.4	77.8	78.0	80.0	78.4	77.5	75.8	68.0	54.2	
	75%	79.0	69.2	70.9	75.1	74.8	75.9	75.9	74.3	72.7	66.7	01.0	
YEDIAN	20%	74.7	66.0	69.1	70.5	70.8	73.4	72.3	70.8	69.8	61.9	49.3	
Ξ	75%	71.9	63.2	66.8	68.2	67.9	8.69	68.8	66.7	63.8	56.9	43.2	
	10%	71.4	62.5	65.0	66.3	64.2	68.9	64.7	63.2	60.7	54.0	47.5	•
• .	75	70.8	62.5	62.9	64.5	63.5	66.1	64.7	61.3	60.1	00°0	47.5	
	ZΙΣ	00. 10.	0.69°	62.3	69.0	62.2	65.4	63.8	59,3	58.6	48.9	41.4	
STO	DEV	4.4	5.6	4.0	4.4	6.4	4.6	٥. ن	5.1	មា មា	5.4	2.7	
	AVG					71.4							
FREGUENCY	2H	O.လ	10.0	12.5	16.0	20.0	25.0	91.B	40.0	30.0	100.0	315.0	STOP





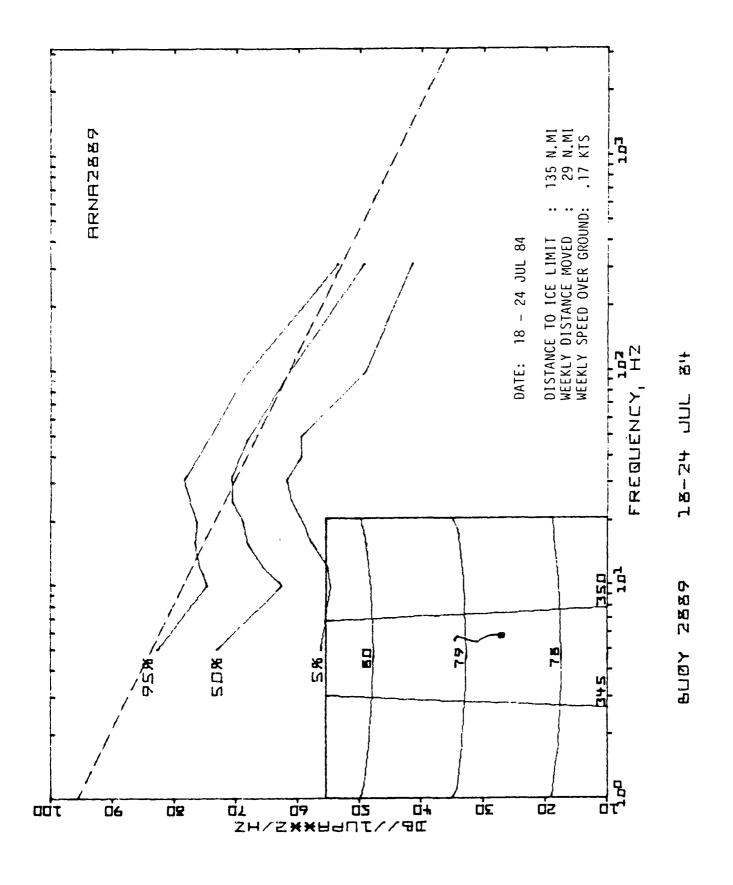
MONTH: 18-24 JUL 84 FUOY: 2889

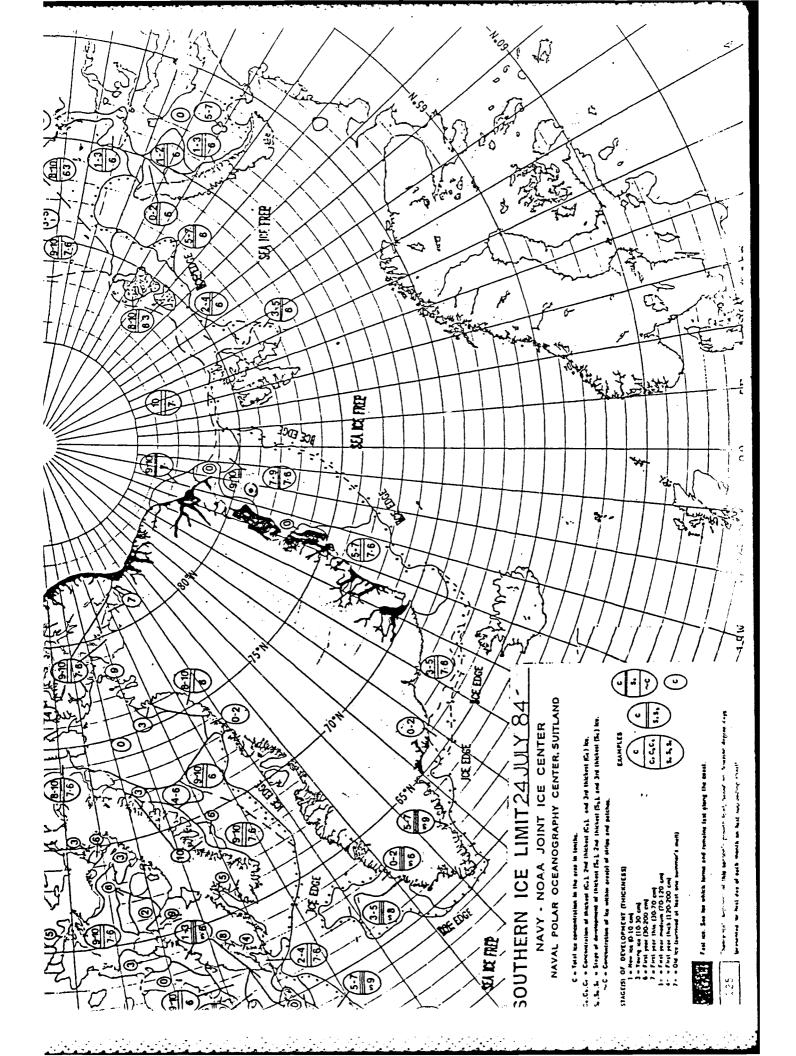
CUTPUT IN FILE ARNA2839

29.040 FAST: DISPLACEMENT (N. MI.): 29.162 NORTH: DIRECTION (TRUE): 354,734

THE NUMBER OF DATA SAMPLES IS 56

	Z	90	95	9E.	٠ د ا	99	٠ ا	90	90	S S	80	.0	:
	MAX	4.68	83.2	0. 0.	80.3	0.08	81.9	91.9	78.8	75.8	68.9	56.4	•
	756	32.3	74.5	75.8	76.5	76.2	77.5	78.4	76.1	73.9	67.3	8 9 9	; ,
	20%	80.7	72.9	72.8	74.2	73.9	75.9	77.6	74.3	73.9	67.3	32.0	
									72.1				
EDIAN									69.2				
Ξ									6.4.8				
	10%	0. 0.	(N) (D) (D)	00 10 10	က တို့	61.6	61.9	63.6	60.4	0.00	50.7	41.4	
									00.00 00.00				
									56.8				
STD	DΕV	6. 00	6.0	6.9	6.2	ტ ტ	თ თ	ი თ	ල ග	٠. ب	ر ا	4.2	
	AVG	70.3	63,5	62.9	67.5	63.4	70.3	70.9	68.7	67.3	60.2	48.2	
FREQUENCY	H7	င က်	10.0	12.5	16.0	20.0	25.0	31.5	40.0	0.05	100.0	315.0	STOP





MONTH: 25-31 JUL 84 BUOY: 2889

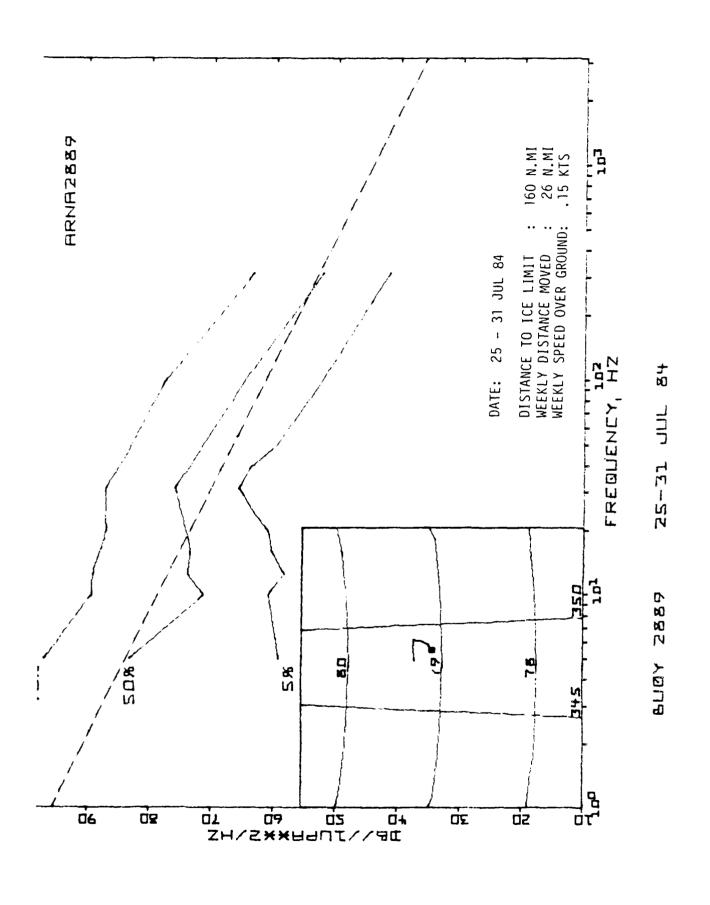
OUTPUT IN FILE ARNAZESS

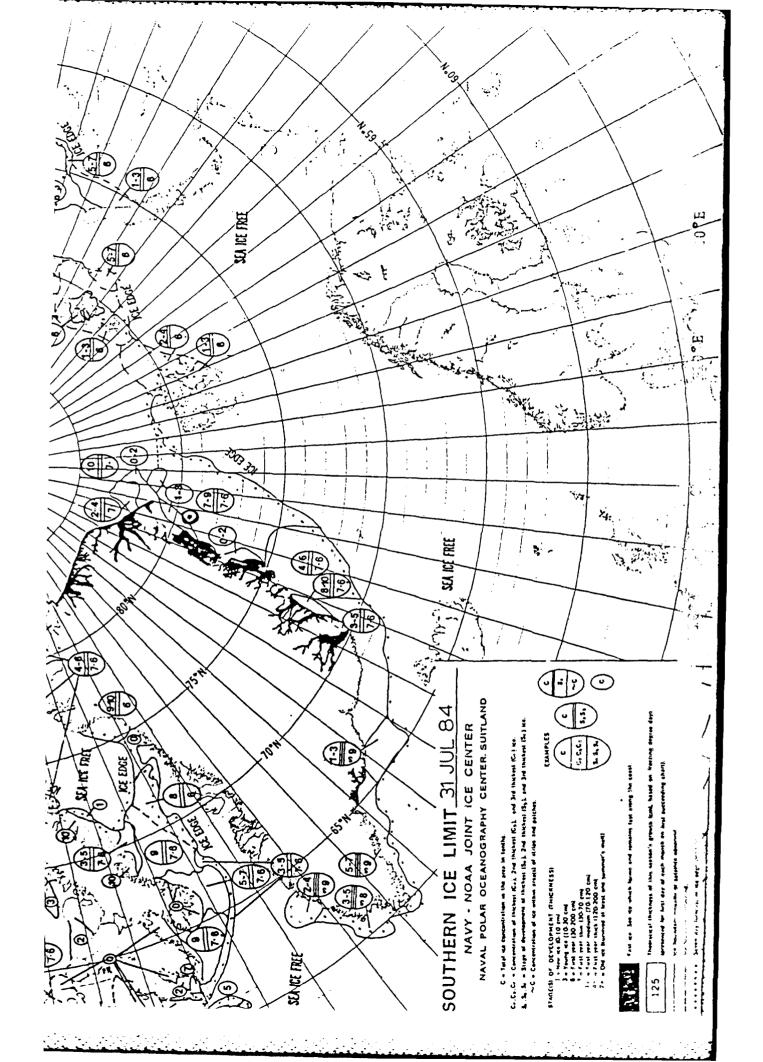
-8.020 24.480 EAST: DISPLACEMENT (N. MI.): 25.761 NORTH: DIRECTION (TRUE): 341.839

THE NUMBER OF DATA SAMPLES IS 56

	2	(v)	. 10 20	90	<u>ي</u> 10	សំ	90 6	%	\$0 10	10.	%	1)
	MAX	107.5	6.76	44.4	92.3	000	80.3	90.4		84.8	79.9	64.1	• • •
	756	97.0	0.00	0.69	87.9	0,00	87.0	6.98	84.8	82.7	77.4	(C)	•
	20%	0.96	હ છ છ	0.0	83.2	84.1	0.40	34.4	00 00 00	79.9	73.9	т 00	, , ,
	75%	90.0	79.8	78.0	78.3	30.0	81.0	31.9	78.8	75.8	69.8	54.0	!
FUIAN	20%	83.1	71.0	73.7	73.3	73.9	75.0	75.9	73.3	71.4	64.6	52, 1	
Ξ	757	74.7	66.0	68.4	67.3	67.0	69.8	71.6	e. 39	67.3	59.4	49.3	
	10%	73.0	63.2	62.9	63.0	63,5	65.4	67.6	64.8	61.0	0 15 15	47.5	
	2%	0.00	9.09	58°	60.3	80.8	63.5	65.6	63.5	59.4	52.1	41.4	
	NΙΜ	57.4	52.0	00°.1	57.2	ស ស ស	00 00 00	6.09	60.1	56.7	51.4	41.4	
STD	I)EV	10.9	10.1	က တ	တ	α α	7.4	6.6	7.0	6.3	7.2	ы С	
	AVG	00 00 00	73.8	73.7	73.7	73.8	75.9	76.5	74.0	71.5	65, 1	52,3	
FREQUENCY	ZH	o က်	10.0	12.5	16.0	20.0	25,0	31.5	40.0	20.0	100.0	315.0	STOP

.



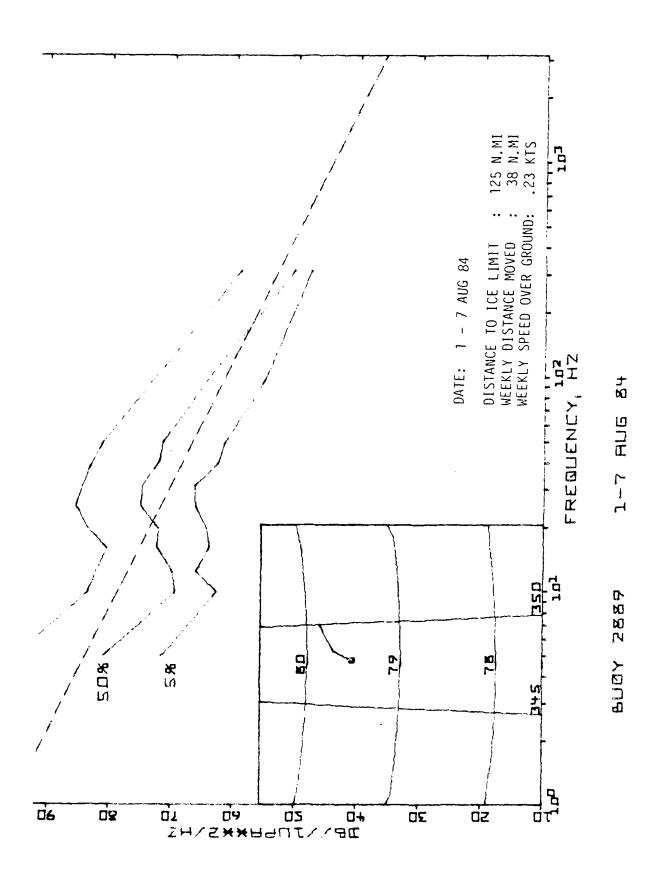


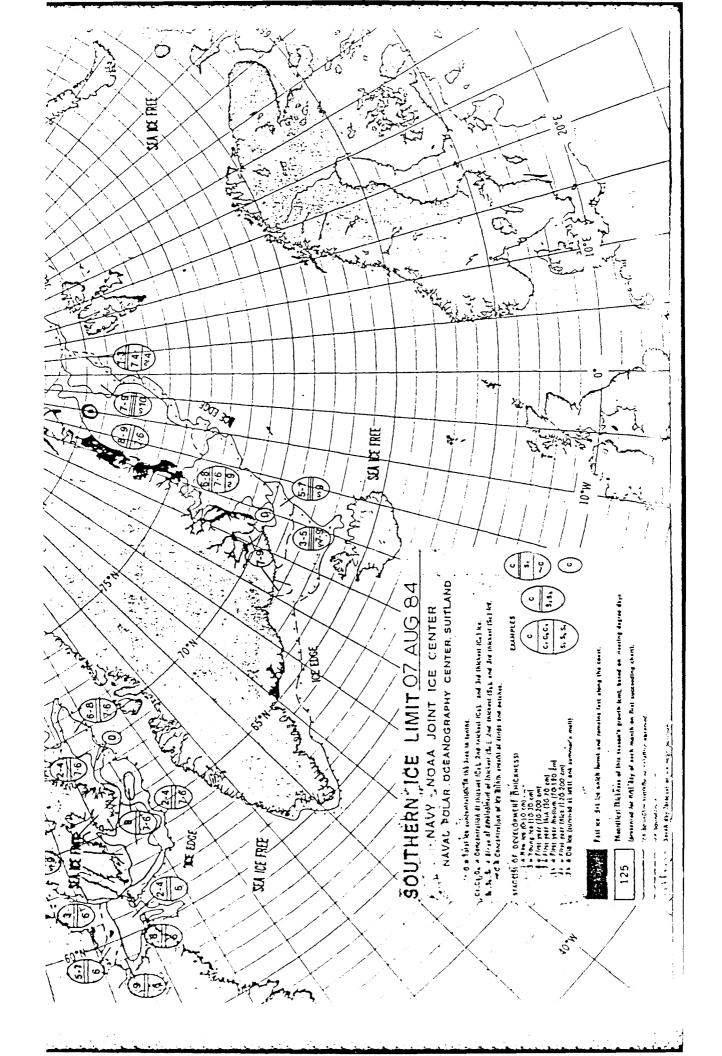
MONTH: 1-7 AUG 84 RUOY: 2889

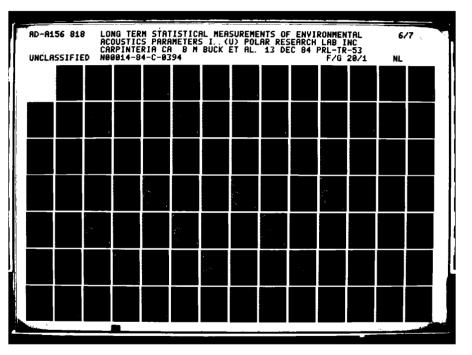
CUIFUL IN FILE ARNAZES

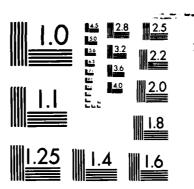
DISPLACEMENT (N. MI.): 37.638 NORTH: 18.360 FAST: 32.857 DIRECTION (TRUE): 60,798

FREQUENCY		STD				Ξ	FILTAN					
HZ	AVG	TIE V	MIN	22	10%	722	202	75%	200	796	MAX	Z
ට. ග		7.7	63.7	71.4	71.9	74.7	80.7	84.7	0.06	94.9	90.0	5
10.0	70.2	6.7	6.09	62.5	63.2	65.0	€9.5	72.9	79.0	000	6.73	ψ.
12.5		- ::	61.1	62.9	66.3	67.7	69.7	74.4	77. 4	ω. Ω.	87.8	9) 10)
16.0		S. S.	62.2	60°09	66.3	69.1	72.3	74.2	78,3	80.0	85.4	67. 117.
20.0		00 107	61.9	64.2	66.0	68.8	72.0	75.5	80.0	88.u	86.8	10 10
25.0		တ က	64.2	66.1	67.9	69.8	75.0	77.5	0.18	85.4	90.2	نا تا
91.8 8		មា មា	64.4	66.3	67.6	71.6	74.8	7∂.4	80.9	84.4	80.00	Ş
40.0		6.0	89°.0	62.3	64.8	66.09	72.1	76.1	79.3	82.9	86.4	99
50.0		5.7	 000 1	61.3	65.3	6.73	71.4	6.07	77.4	31.0	82.7	u) U)
100.0		တ က	49.8	54.7	e ស្វែ	59.4	89.89	66.7	70.7	72.7	75.8	٠ انا
315.0		დ დ	42.4	47.5	48.2	48.2	50.0	52.1	្រ	00°	64.1	100 100
STOP											i	









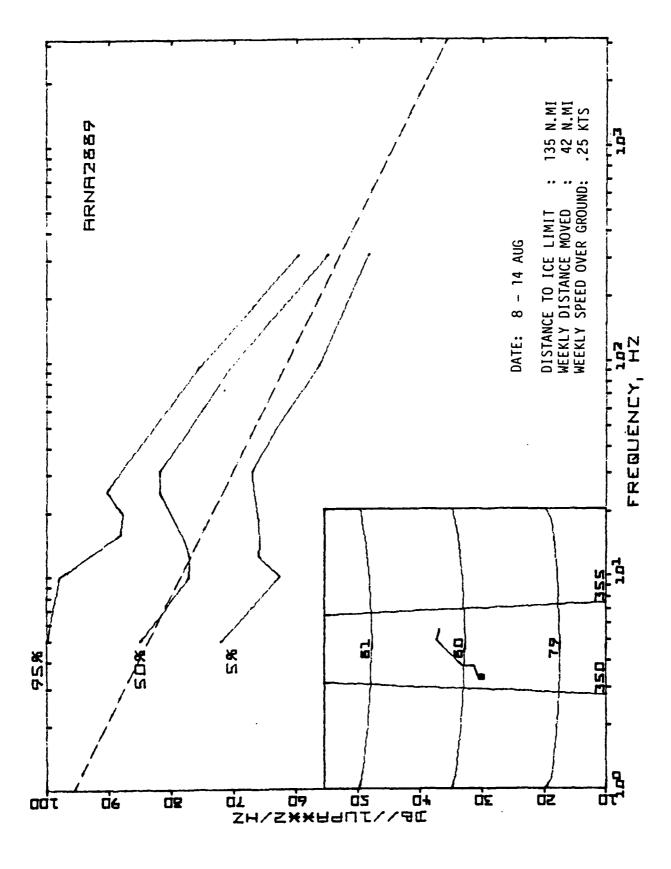
MICROCOPY RESOLUTION TEST CHART
NATIONAL BURFALL OF STANDARDS-1963-A

MONTH: 8-14 AUG 84 BUDY: 2889

OUTPUT IN FILE ARNA2889

DISPLACEMENT (N. MI.): 41.730 NORTH: 24.600 EAST: 33.707 DIRECTION (TRUE): 53.871

	Z	90	95	56	26	99	36	26	99	90 20	8	S.	
	MAX	109.1	103.9	101.0	99.2	93.0	92.0	39.6	86.4	88.4 4	78.1	80.8	
	95%	106.2	97.9	93.2	87.9	87.6	90.2	87.9	85.4	82.7	74.9	30.00	
	206	103.1	91.8	38.4	80. A	83.1	87.9	86.9	84.2	82.7	73.9	0.00	
	75%	95.5	88.0	83.0	တ ကို လ	34.1	85,4	85.1	32.7	79.9	72.7	00° 1.	
MEDIAN	202												
Σ	25%	79.9	89.8	71.9	75.1	77.5	77.5	7.7.6	74.3	73.9	66.1	51.3	
	10%	73.0	65.0	66.3	47.1	70.8	6.89	89.8	66.7	63.8	ល ហ្វេ	48.2	
	2%	71.9	62.5	62.9	65.7	0.99	66.7	67.0	64.8	62.3	00 101 101	48.2	
	MIN	56.1	56.5	63.0	63.0	64.1	66.0	65.7	64.0	61.0	52.1	41.4	
STD	DFV	11.2	10.9	%	7.7	6.5	6.7	6.3	6,0	6.3	6.3	4.2	
	AVG	37.0	78.0	73.2	79.0	79.7	80.7	30.4	77.9	75.9	68.2	54.4	
FREQUENCY	ZH	၀ က	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP



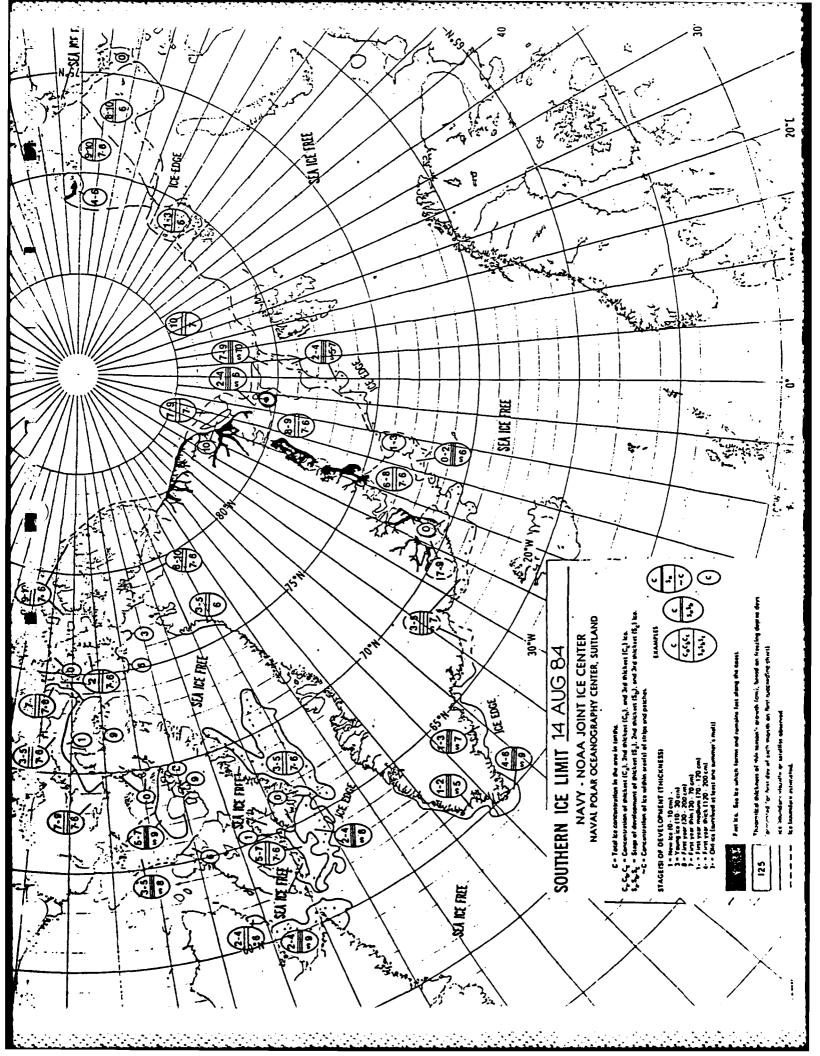
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1,7

BUOY 2889

8-14 AUG 84



MONTH: 15-21 AUG 84 BUCY: 2889

Control of the contro

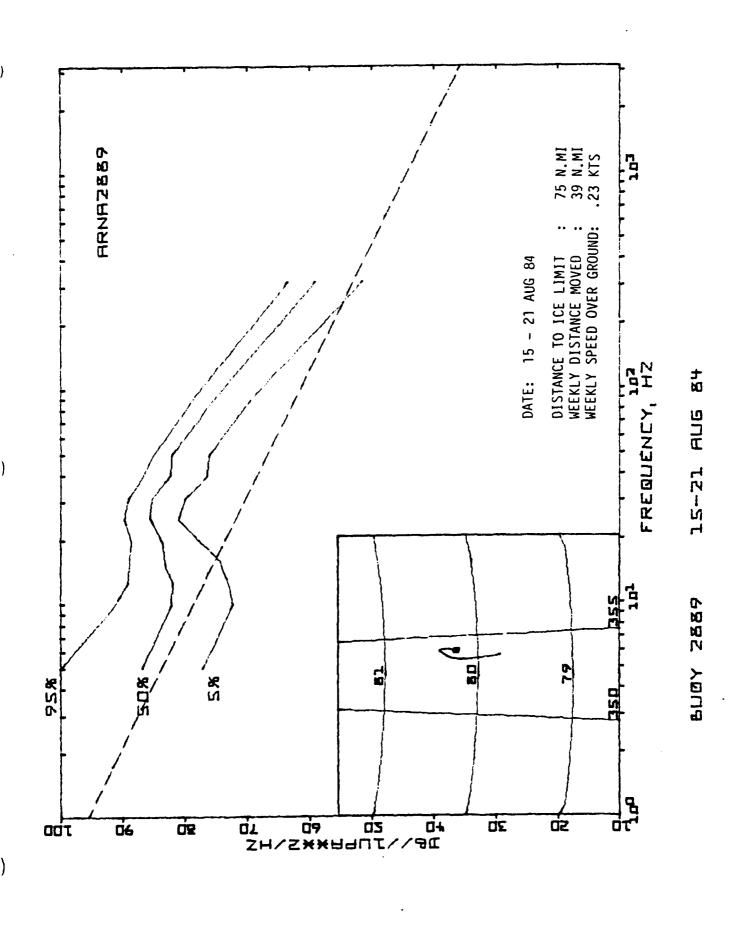
OUTPUT IN FILE ARNA2889

DISPLACEMENT (N. MJ.): 38.783 NORTH: -38.700 FAST: DIRECTION (TRUE): 183.752

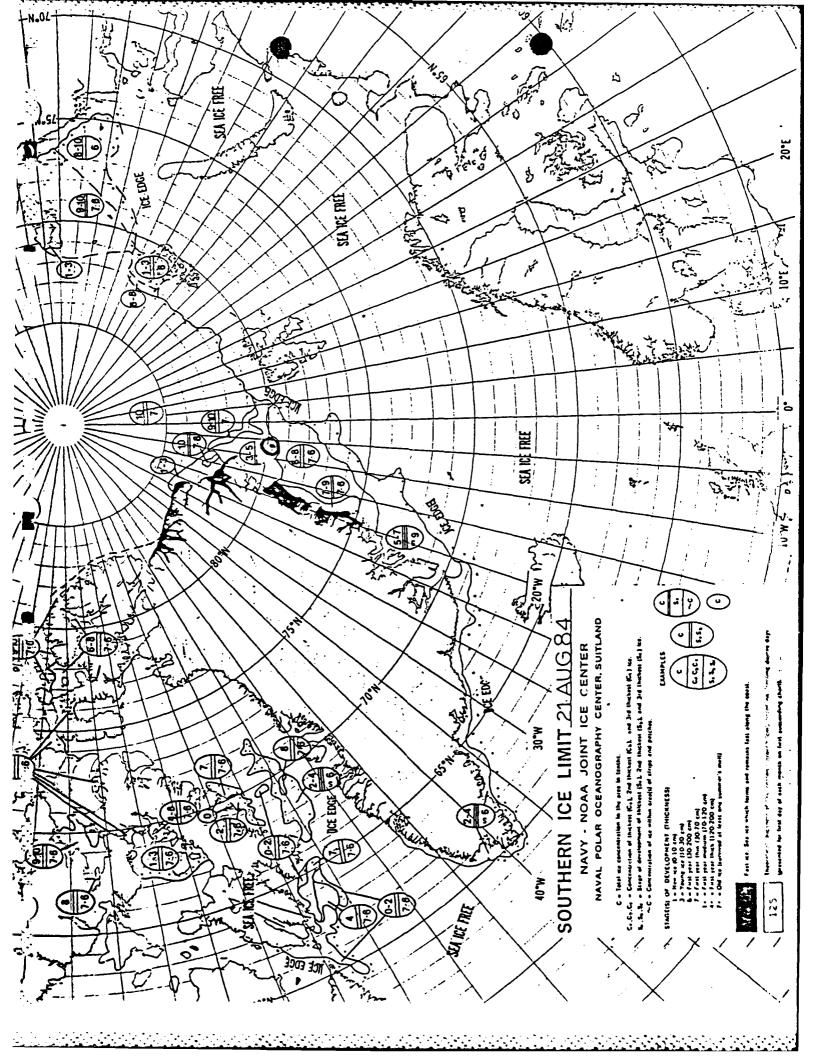
THE NUMBER OF DATA SAMPLES IS 56

						90							
		—				92.8							
						ල ගු							
	206	93	87.9	87.2	87.1	86.0	87.9	87.9	85.4	84.1	76.7	62.4	
	75%	91.0	84.1	34.9	85.4	33.1	87.0	86.9	84.8	82.7	75.8	61.4	
JEDIAN	20%	86.7	9	81.8	83.2	დ დ	85.4	€ 800	82.1	31.9	73.9	50 50 50	
Σ	25%	 	77.0	78.9	81.1	82.2	83°8	83.6	80.4	79.4	71.4	56.4	
	10%	78.0	75.2	76.9	78.3	79.1	82.7	79.7	78.2	76.7	67.9	54.2	
	2%	76.8	72.0	72.8	74.2	77.5	81.0	79.7	76.1	75.8	67.9	51.3	
	Z	76.1	68.5	68.4	68.2	75.5	78.8	75.9	73.3	73.9	66.7	50.3	
STD	DEV	7.3	ທ ໝ	4 .0	4.6	3.0	2.4	3.0	3.2	2.3	0 %	ტ ტ	
	AVG	87.4	81.4	31.9	83.0	83.3	85.4	34.8	82.3	81.1	73.6	58.6	
FREGUENCY	HZ.	S, O	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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MONTH: 22-28 AUG 84 RUNY: 2889

OUTPUT IN FILE ARNA2889

EAST: DISPLACEMENT (N. MI.): 36.023 NORTH: -35.760 DIRECTION (TRUE): 173.076

THE NUMBER OF DATA SAMPLES IS 56

	Z	90 00	2 2	in in	28	ģ	26	26	56	90	28	90	
	MAX	100.9	96.1	92.5	90.4	90.1	88.7	21.7	85.4	80.7	78.8	64.1	
	756	93.0	87.9	85.7	86.3	86.0	87.0	с. С.	85,4	84.1	77.4	62.4	
	206	96.0	84.1	34.0	84.4	33.1	87.0	86.9	84.8	89° 0	76.7	61.4	
	75%	00 00 00	79.8	79.7	82.5	83.u	86.0	85.7	83.5	82.7	74.9	80.8	
DIAN	20%	85.3	76.5	78.0	80.3	81.6	83. 13	83.6	81.3	6.64	72.7	53.1	
Σ	25%	79.0	73.8	75.8	78.3	79.1	0.13	80.9	78.2	78.8	68.9	53.5	
	10%	78.0	70.4	72.8	75.1	76.9	79.4	77.6	76.1	74.9	67.3	51.3	
	2%	78.0	68.5	70.9	75.1	74.8	78.8	75.9	74.3	73.9	66.7	51.3	
	MIN	71.9	66.3	63.4	70.5	73.0	75.9	74.3	73.3	72.1	66.1	50,3	
STD	DEV	6.9	6.3	4.5	დ რ	3.4	0.e	ი ზ	3.4	3.4	3.7	4.0	
	AVG								80.9				
FREQUENCY	ZH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

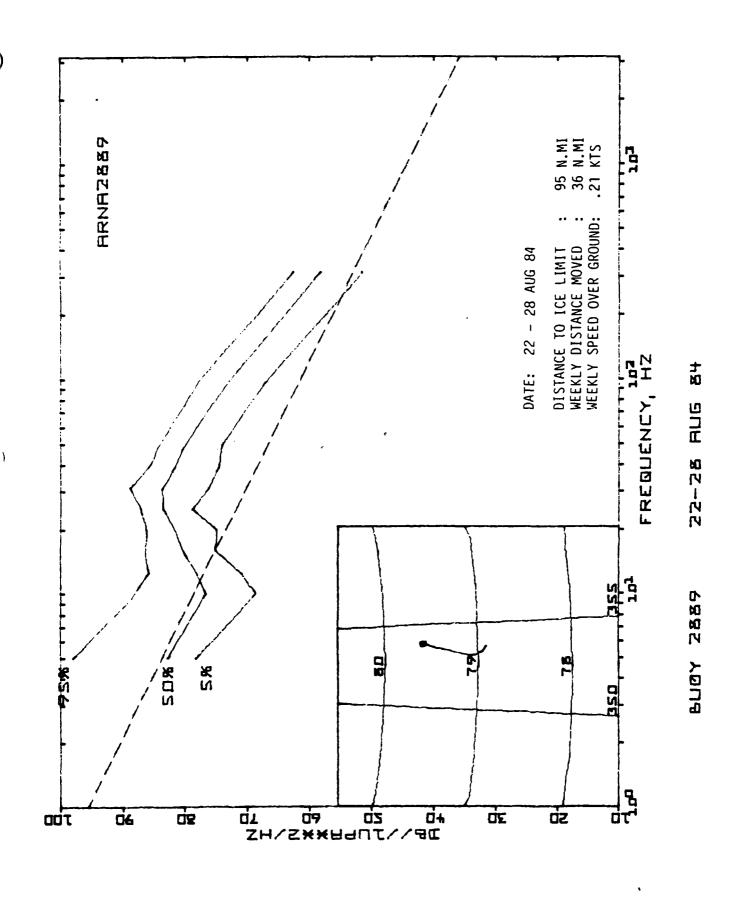
_

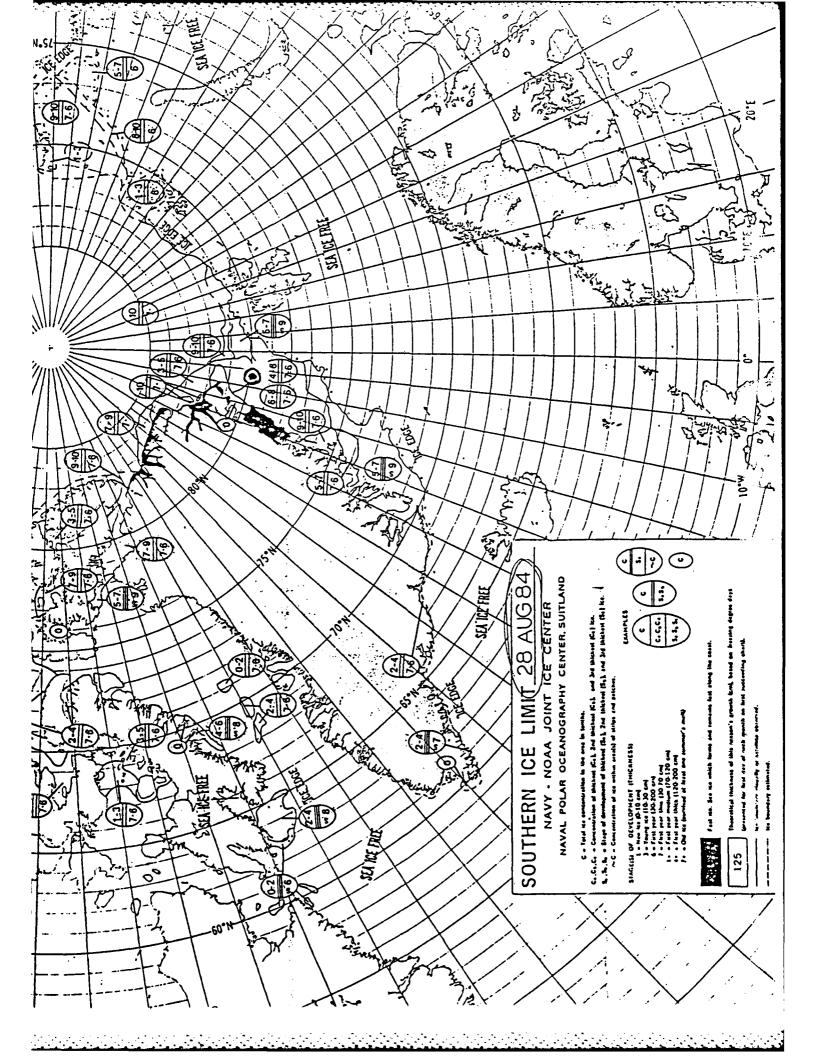
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MONTH: 29AUG-4 SEP 84 BUDY: 2889

OUTPUT IN FILE ARNA2889

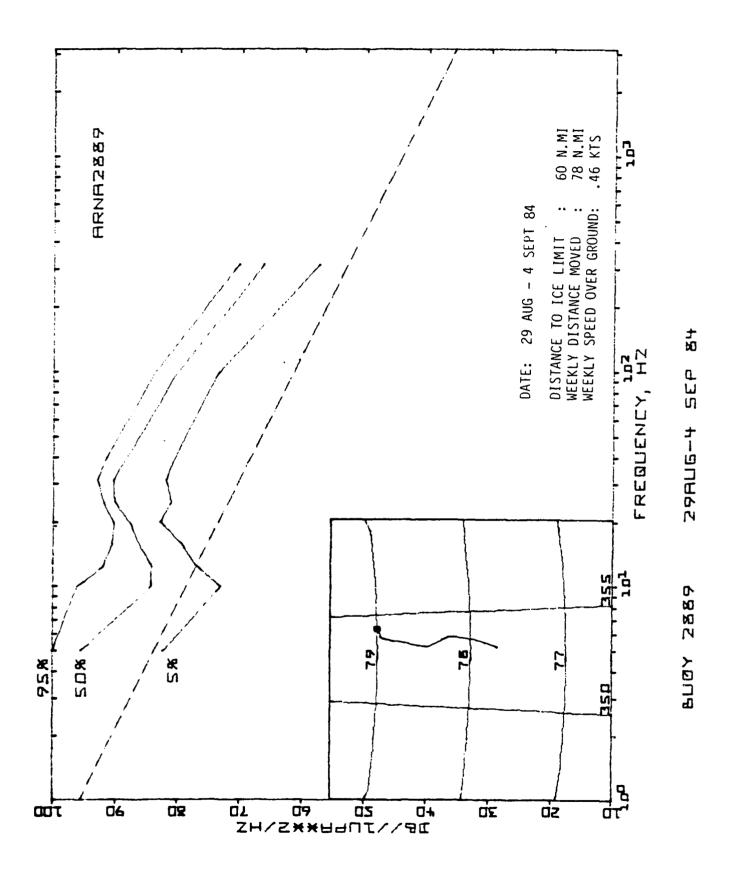
DISPLACEMENT (N. MI.): 77.929 NORTH: -76.800 EAST: -13.217 DIRECTION (TRUE): 189.783

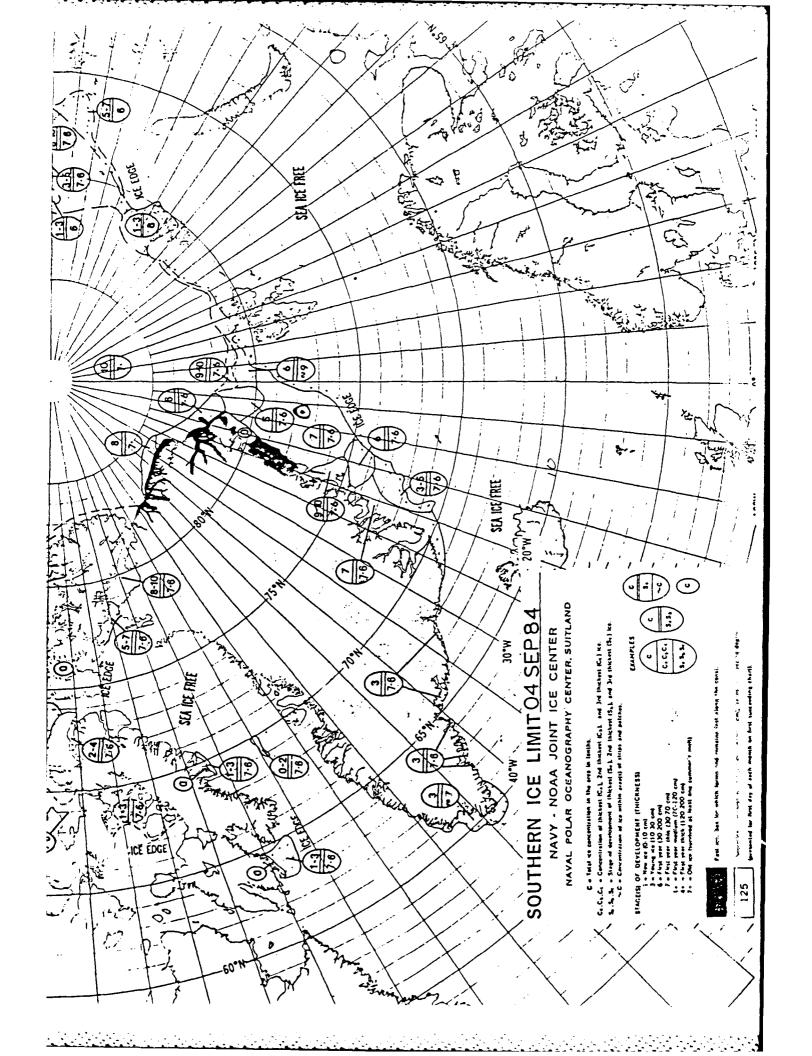
THE NUMBER OF DATA SAMPLES IS 56

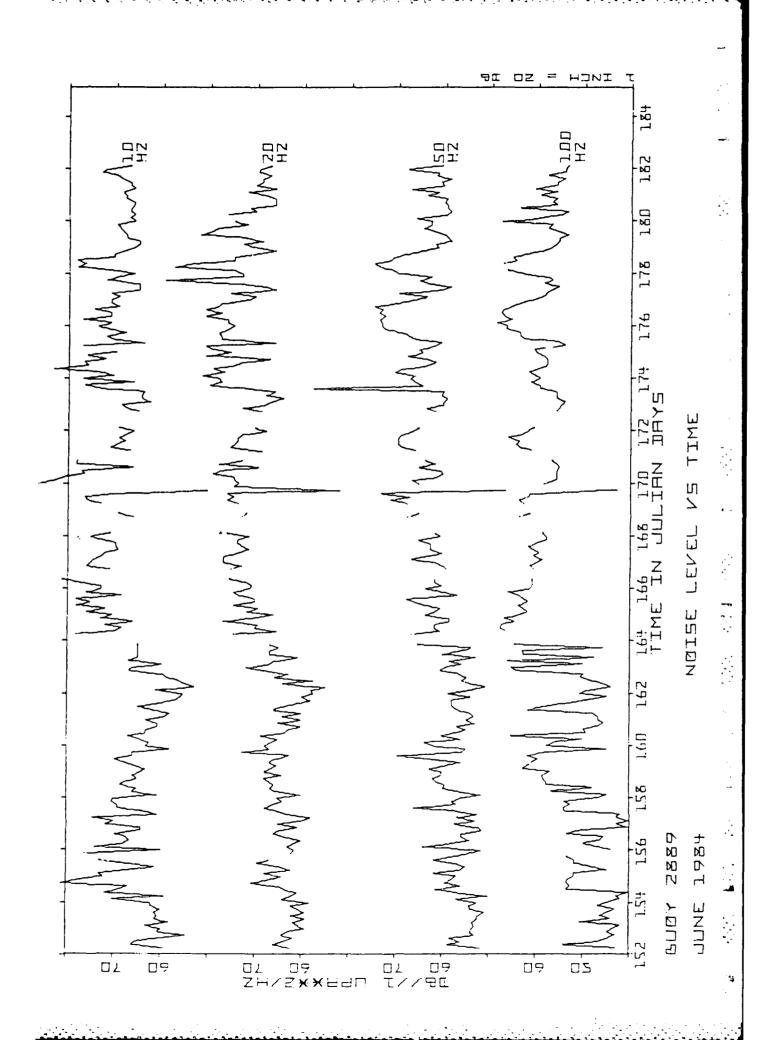
FREQUENCY		STD				Σ	JEDIAN					
Н7	AVG	PEV	ZIW	% 5	10%	25%		72%	206	% 50		Z
្រ	7:96	υ· .^	79.0	32.2	84.0	90.0		103.1	104.8	105,6	-	Ů,
10.0	85.2		72.0	72.9	75.9	79.0		91.0	94.5	1.96		S S
12.5	84.4		73.7	76.9	73.0	31.1		83.4	91.7	91.7		9
16.0	တ က ထ		75.8	79.4	 	8 8 8		87.9	90.4	90.4		90 90
20.0	87.3		78.0	82.9	34.1	_ 		00 00 00	90.1	90.1		90
75.0	89.1		81.0	81.0	84.8	87.0		92.0	92.0	92.0		99
01.00 100	89.0		75.9	31.9	83.6	87.9		91.7	6.00	6.00		Š
40.0	87.6	8	78.2	80.4	82.0	86.4	88.1	89.6	90.8	91.4	94.9	Š
50.0	86.2		76.7	73.8	81.9	34.8		87.9	88.7	0.00 0.00	_	ŝ
100.0	79.4		869.8	73.3	74.9	78.1		81.0	0.10	က ကြ		Ý.
315.0	65.3		51.0	57.3	59.6	62.4		67.4	68.4	70.2		26
STOP												

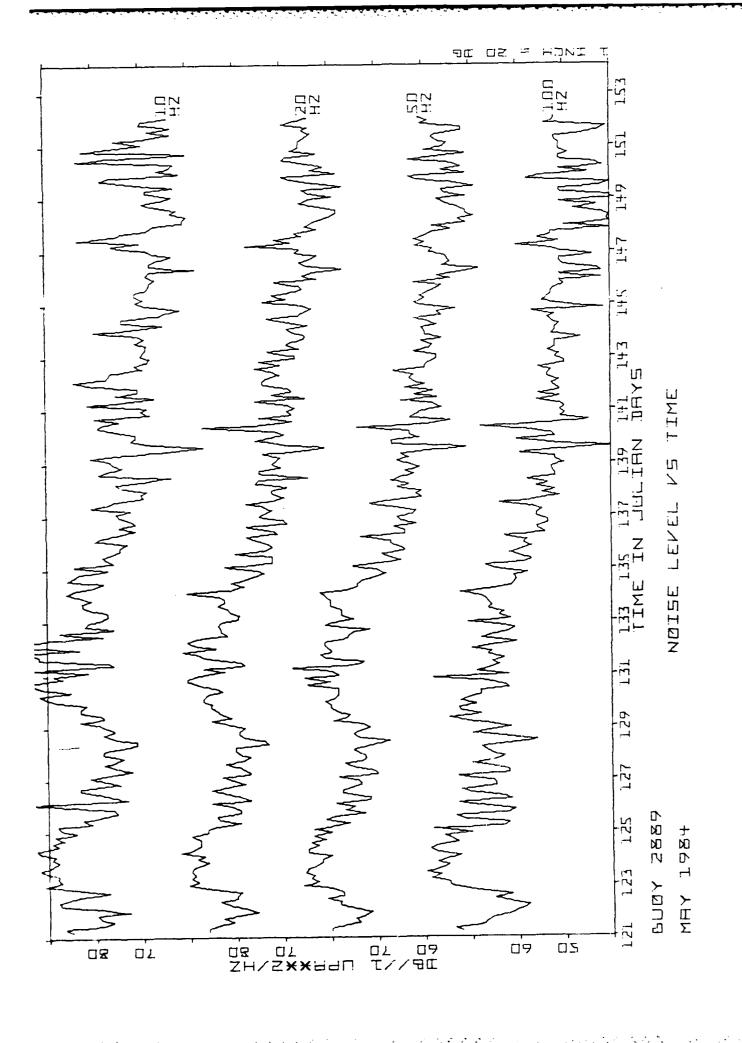
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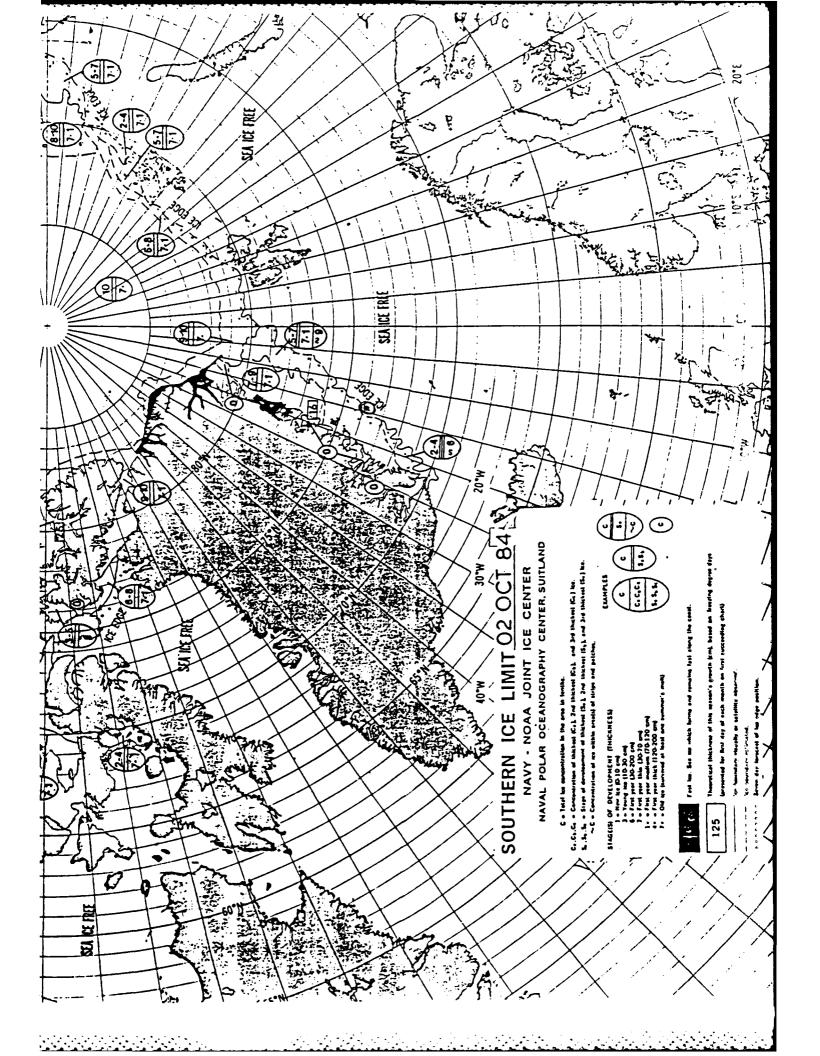
. . .

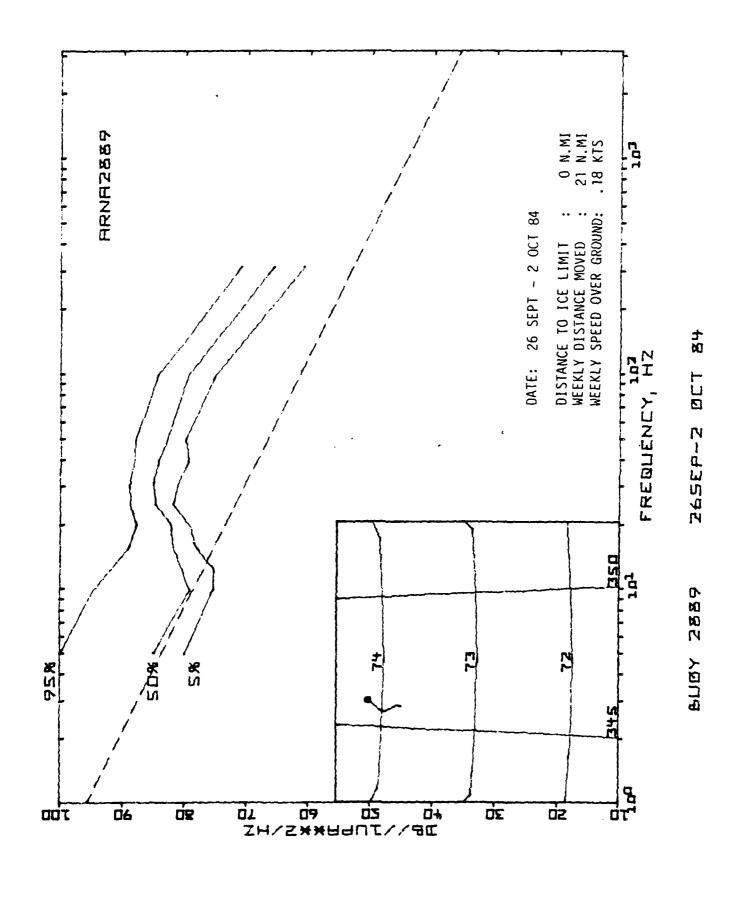












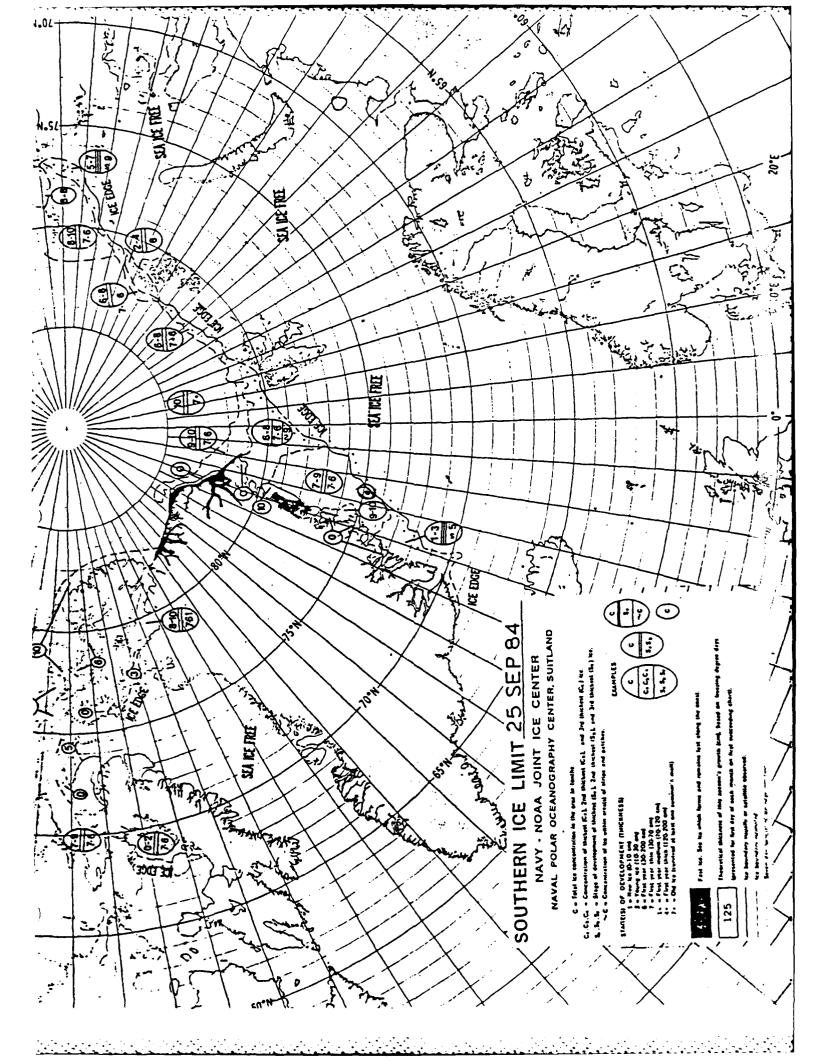
MONTH: 26SEF-2 OCT 84 RUOY: 2889

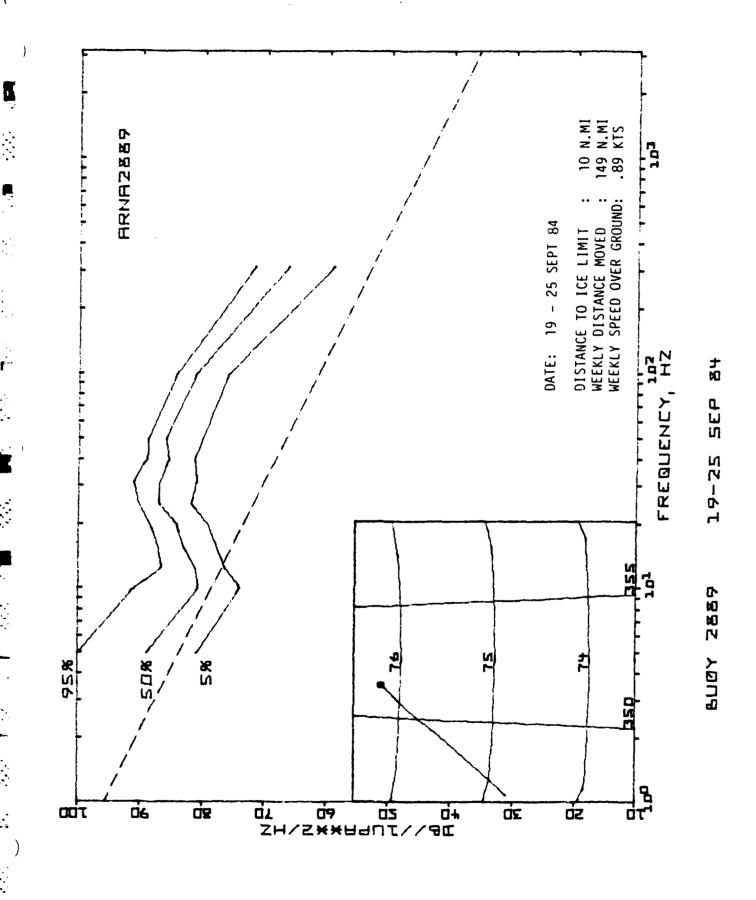
OUTPUT IN FILE ARNAZ889

-3.313 DISPLACEMENT (N. MI.): 21.200 NORTH: ~20.940 EAST: DIRECTION (TRUE): 189.010

THE NUMBER OF DATA SAMPLES IS 34

									<u>ო</u>				
		_							0.00				
	%56	104.8	94.5	91.7	9. 000	87.6	88.7	00 00 00	38.1	87.9	84.1	70.9	
									88.1				
	75%	91.0	85° ca	82.4	34.4	000	87.9	87.9	87.3	86.0	82.7	69.3	
MEDIAN	202	85.0	79.0	80.5	81.9	82.2	84.8	89.1	84.2	82.7	79.4	65.6	
Ξ	25%	85.8	76.5	76.9	79.4	31.6	න ලිලි	82.8		31.0	77.4	63,3	
	10%	80.7	75.2	76.97	78.3	30.0	82.7	81.9	80.4	79.9	75.8	61.4	
	5%	79.0	75.2	75.1	78.3	79.1	81.9	80.9	79.3	79.9	74.9	8.09	
	ZIΣ	73.0	74.5	75.1	78.3	79.1	81.0	80.9	78.8	79.4	74.9	8.03	
STD	DEV	ο Ο	6.1	4.3	හ ල්	00 00	2.4	2.7	۳. م	2.3	0°0	3.7	
	AVG								84.3				
PRECIENCY	Н7	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	0.00	100.0	315.0	STOP





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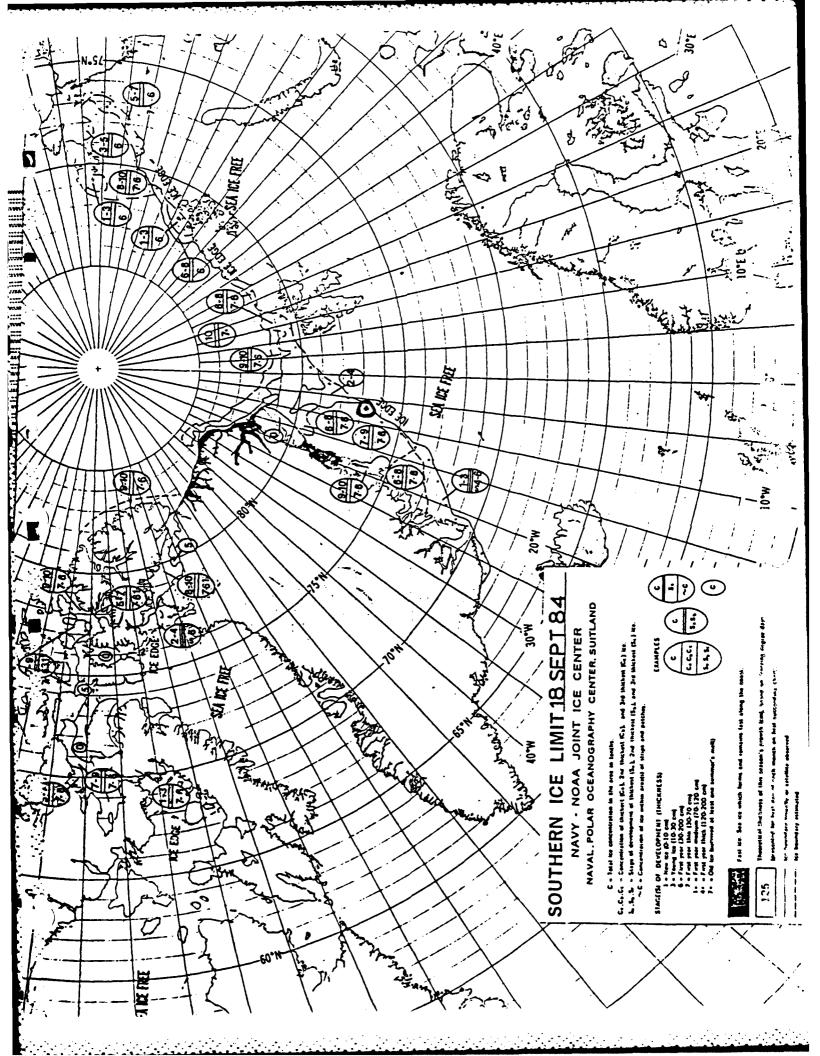
MONTH: 19-25 SEP 84 BUDY: 2889

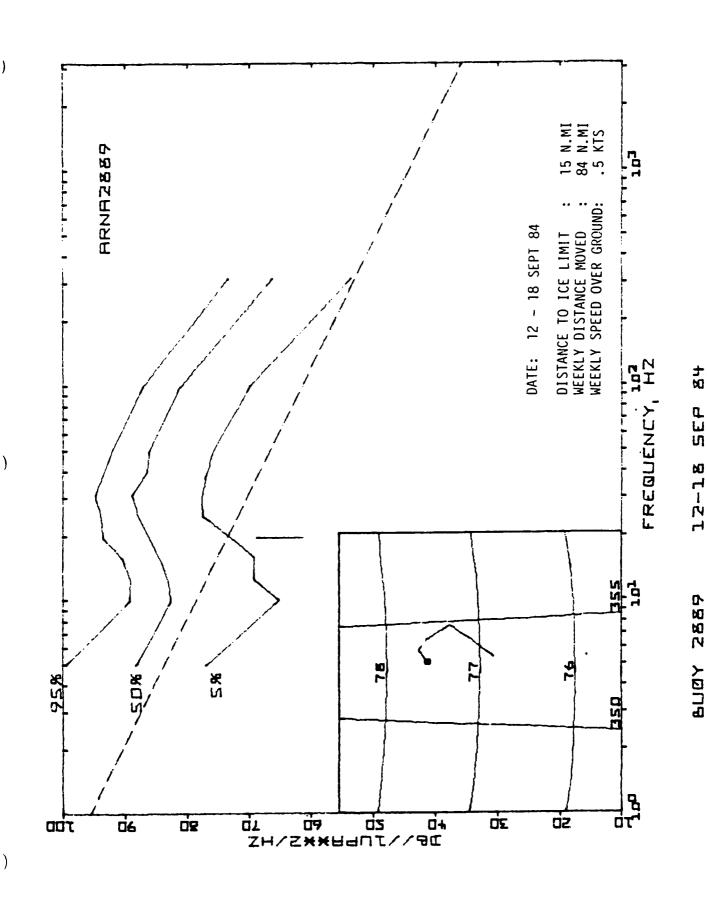
CUITPUT IN FILE ARNA2889

DISPLACEMENT (N. MI.): 149.015 NORTH:-123.180 EAST: -83.859 DIRECTION (TRUE): 214.270

THE NUMBER OF DATA SAMPLES IS 56

	Z	9 <u>0</u>	99	90 20	99 20	S IC	9E	ហ្គ. ហ	99	9 10	99 21 20	9 E	
	MAX	105.6	92.6	90.9	90.4	98°.0	91.4	91.1	91.4	90.5	88.7	78.9	
						00 00 00							
	20%	100.9	။ ထ	85.7	86.3	87.6	ம் இ	90.0	88.1	87.9	ණ ල ර	70.3	
		-				86.0						-	
PDIAN	20%	00 00 00 00	80.6	31.1	N 00 00	84.1	87.0	86.9	85.4	36.0	0.18	66.2	
ž	25%	34.0	78.1	79.7	80°.	31.6	84.8	85. t	84.2	89°.01	79.4	64.1	
	10%	8. S	75.2	76.9	78.3	30.0	81.9	31.9	82.1	81.9	76.7	80.2	
	2%	30.7	73.8	76.4	77.8	79.1	81.9	80.9	9. To	79.9	75.8	58.9	
	MIN	79.0	71.0	73.7	76.5	78.0	80.0	79.7	79.3	79.4	74.9	50.9	
STD	DEV	.≎	o ග	ი ი	0.0	5.9	2.7	5.9	2.7	2.7	2.7	4.0	
	AVG	89.9	81.2	81.5	82.9	84.2	86.4	36.7	85.6	85.4	80.6	66.3	
FREGUENCY	HZ	3,0	10.0	12,5	16.0	20.0	75.0	31.5	40.0	50.0	100.0	315.0	STOP





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MONTH: 12-18 SEP 84 BUDY: 2889

CUITPUT IN FILE ARNAZESS

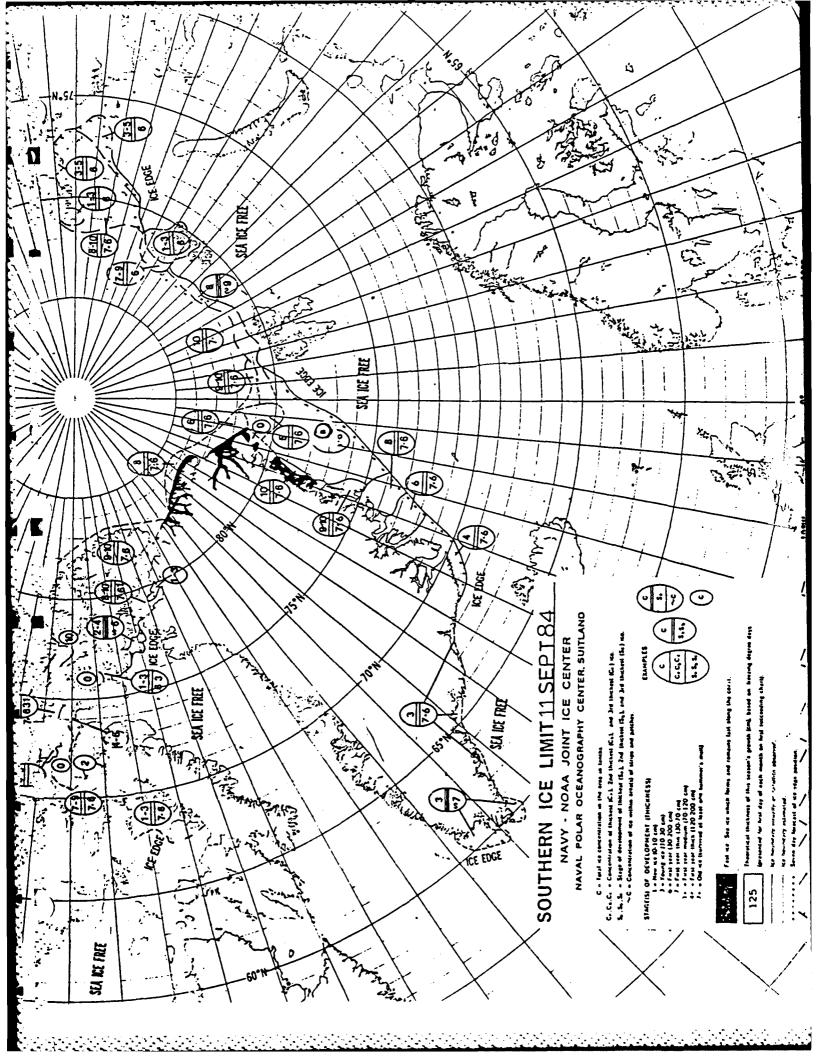
DISPLACEMENT (N. MI.): 84.105 NORTH: -81.480 EAST: -20.848 DIRECTION (TRUE): 194.372

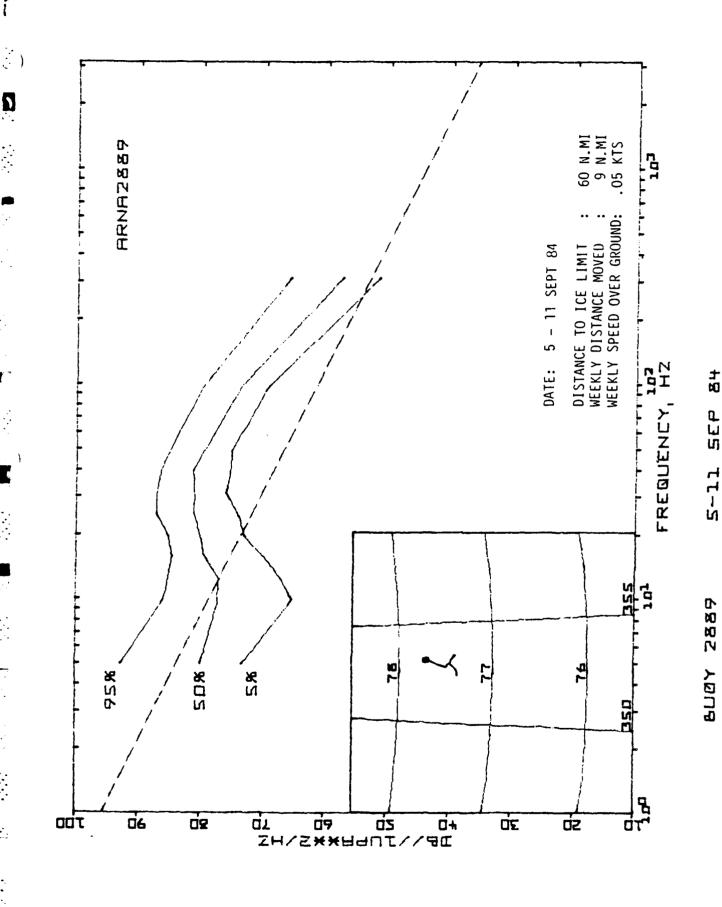
THE NUMBER OF DATA SAMPLES IS 56

			% 21¢										
	HAX	102.0	90.1	51.7	93.9	94.9	98.0	95.7	94.9	93.0	88.7	75.3	
	796	99°0	89.1	89.0	90.4	93.6	93.9	94.8	99.3	92.0	87.0	73.4	
	206	0.96	87.3	33.4	87.9	90.1	93.0	6.26	91.4	90.2	86.0	72.8	
	75%	95°.00	00 10 00	34.9	85.4	e. e. e.	90.2	90.4	98.0	38.7	84.1	70.2	
METOTAN	202	88.2	87. 82.	83.0	84.4	96.0	87.9	00 00 00	86.4	36.0	81.0	66.2	
Σ	25%	84.0	3.64	30.5	80.0	31.6	84.2	88. L	82.0	82.7	76.7	80.3	
	10%	81.5	72.9	74.4	73.3	76.9	79.4	80.9	79.3	79.4	73.3	99.9	
	2,5	76.8	65.0	69.1	69.1	73.0	77.5	7.7.6	76.8	75.8	69.8	89°50	
	MIN	74.7	63.8	62.9	66.3	69.5	73.9	75.9	73.3	73.3	67.3	52.8	
STD	DEV	6.4	6.4	ر د.	6.0	2.7	10	4.6	4.9	₽. 13	4.9	6.3	
	AVG	88 89 80	81.4	82.1	82.7	34.7	87.2	87.8	86.0	35.4	80.4	65.2	
FREQUENCY	H	0 0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	30.0	100.0	315.0	STOP

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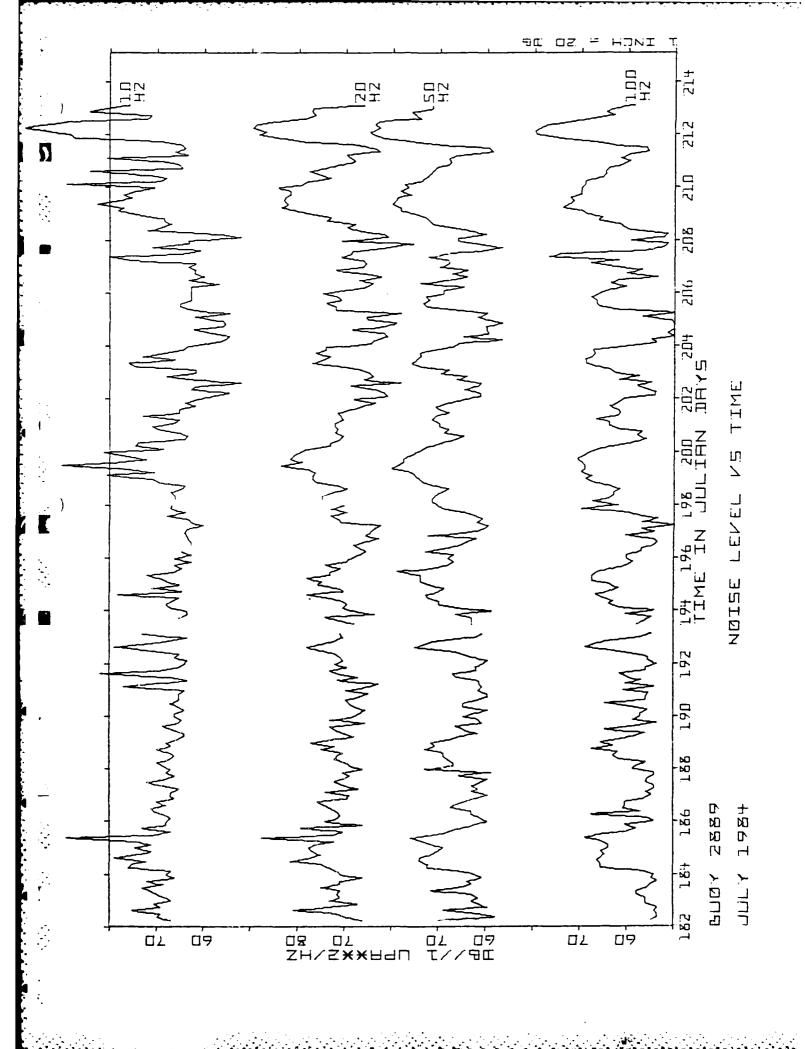
MONTH: 5-11 SEP 84 BUOY: 2889

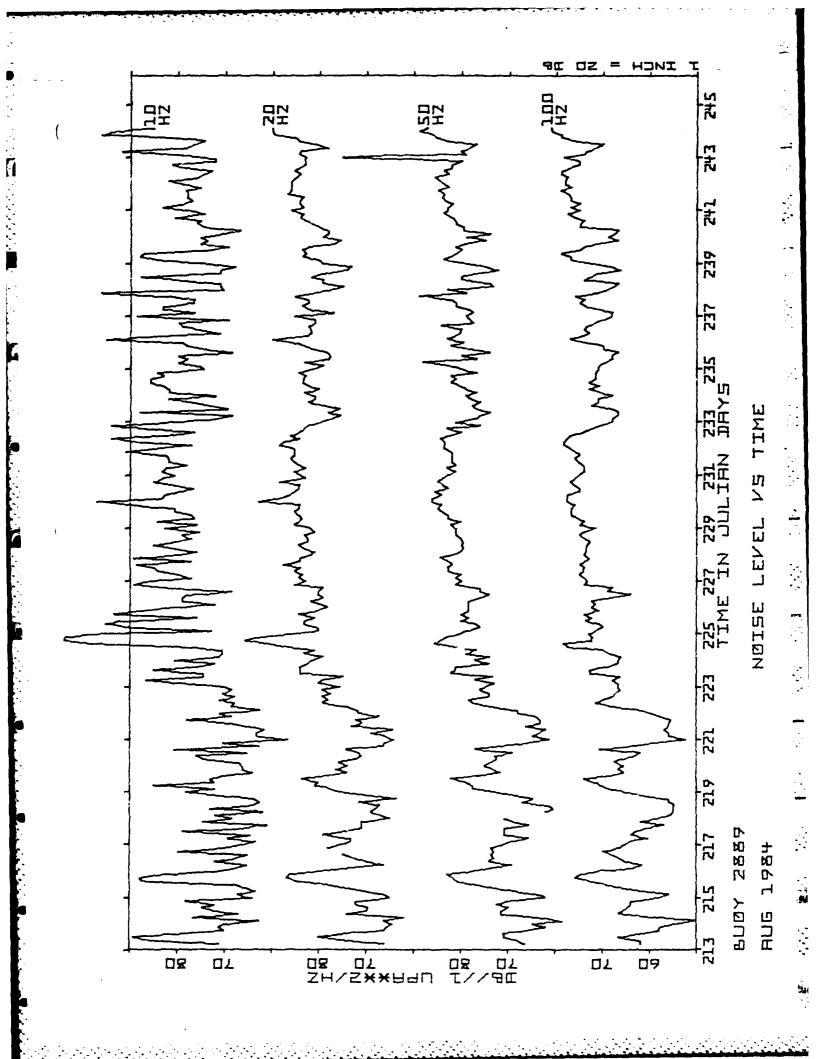
OUTPUT IN FILE ARNA2889

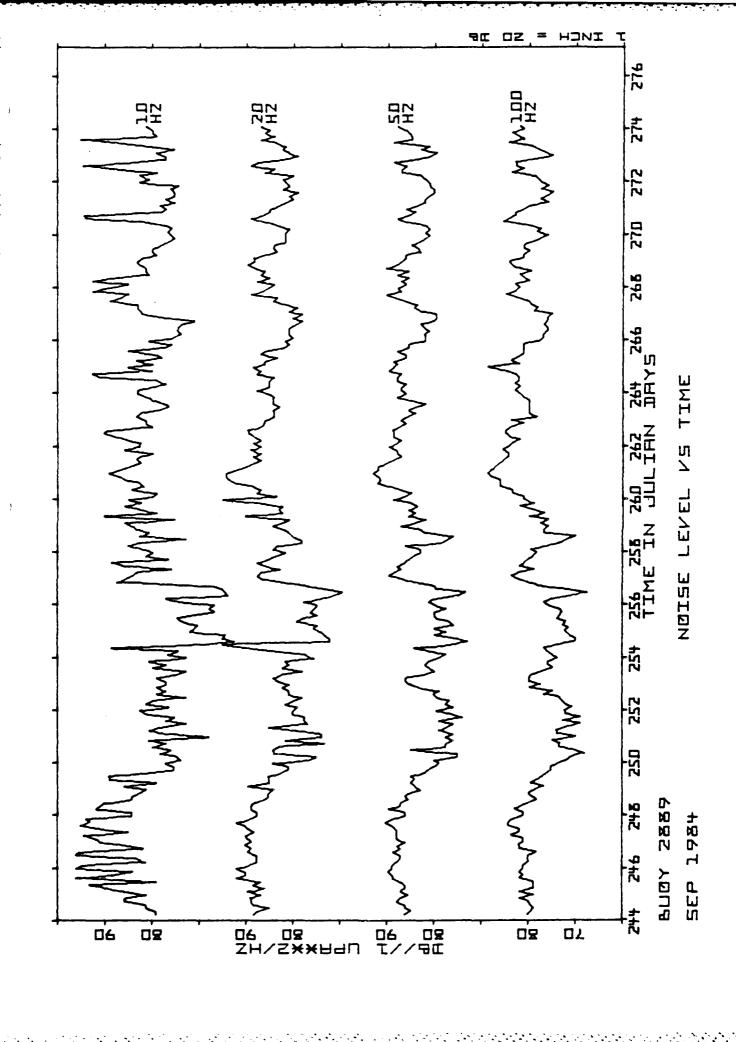
8.880 NORTH: -8.820 EAST: DISPLACEMENT (N. MI.): 8 DIRECTION (TRUE): 186.676

THE NUMBER OF DATA SAMPLES IS 56

	Z	9°	90 0	90 0	98 8	90 0	96	90	98 8	S S	26	90	
	MAX	0.00	89.1	85.7	87.1	0.40	90.2	90.4	33.1	86.0	79.9	65.6	
	796	% %	တ ကြ	84.9	84.4	ુ. જુ	87.0	86.9	86.4	34.3	79.4	65.6	
	706	0.00 0.00	81.9	82.4	00 00 00 00 00 00 00 00 00 00 00 00 00	 93.	86.0	e.98	85.4	84.1	78.1	64.1	
	75%	87. 8	79.8	7.5.7	80.3	00.00	84.8	84.4	ស () ()	81.0	75.8	60.2	
EDIAN			77.0										
Σ	25%	78.0	72.9	71.9	75.8	76.2	78.8	73.4	78.2	76.7	72.1	54.2	
	10%	26.8	67.8	69.7	72.3	73.9	77.5	76.3	76.1	75.8	88.89	52.1	
٠	2%	73.0	65.0	66.8	69.8	73.0	73.9	75.9	75.2	74.9	68.0	51.3	
			62.5										
STD	DEV	5.7	٠ ا	in.	4.4	4.6	٥.4	დ ტ	3.7	ო ო	0.0 %	4.3	
			76.3										
FREQUENCY	ZH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP







APPENDIX 8

Date Buoy I.D. 2891

Life in Reporting Area 2 (West Greenland Sea)

1 May 1984 - 28 Aug 1984

Type: SYNARGOS (5 - 320 Hz)

BUOY ID 2891

MAY 1984

DAY	GMT	POSITION		DAY	GMT	POSIT	ION
122	403 8	82.430 N 12,77	7 W	138	436	81,240 N	9.172 W
123		32.194 N 12.21		139	415	81.251 N	9.149 W
124		31.977 N 11.09		140	353	81.257 N	9.164 W
125		31.910 N 10.57		141	330	81.308 N	8.936 W
126		31.906 N 10.56		142	451	81.259 N	9.127 W
		31.786 N 9.74		143		81.128 N	9.355 W
127				144	-	81.115 N	9.450 W
128				145		81.128 N	9.484 W
129		31.746 N 9.43		• • •	. — -		9.573 W
130		31.565 N 3.76	4 W	146		81.204 N	
131	353 :	31.559 N 8.66	6 W	147	443	81.273 N	9.765 W
132	340 :	31.604 N 8.63	🤊 W	143	420	81.219 N	9.928 W
133		81.594 N 8.92	୭ ₩	149	359	81.181 N	9.884 W
134		31.474 N 9.00	1 W	150	451	31.232 N	9.705 W
•		81.327 N 9.02	=	151	451	81.236 N	9.718 W
135				152		81.290 N	9.773 W
136		31.243 N 9.20		(0%	¬••¬	13 K # 2 1 2 2 4 1 1 4	× • / / C • • • • • • • • • • • • • • • •

BUOY ID 2891

JUNE 1984

DAY	GMT	POSITION		DAY	GMT	P08	317	TION	
153	424	81.155 N 9.797	W	168	440	80.848	N	11.086	W
154		81.155 N 9.797	W	169	427	80.731	Ν	11.191	W
155		81.156 N 9.484	W	170	415	80,704	N	10.770	W
156		81.133 N 9.422	L.	171	463	80.312	N	ə,⊕ ~4	W
157		81.075 N 9.853		172	359	80.082	11	គ.ទេខ	W
15B		80.963 N 10.417		173	834	80.082	N	8.922	W
159		80.982 N 10.595		174	375	79.786	11	A. 631	W
160		80.987 N 10.643		175	450	79.484	Ν	フリスタブ	W
161		80.954 N 10.874		176	442	79.484	Ν	7.297	W
162		80.830 N 10.816		177	429	79.138	Ν	7. 838	W
163	359	· · · · · · · · · · · · · · · · · · ·		178	417	78.872	14	7.985	W
164		80.757 N 11,223		179	402	78.812	Ν	7.838	14
165		80.777 N 11.434		180	353	78.676	Ν	7.410	W
166		80.841 N 10,976		181	409	78.594	Ν	7.340	W
167		80.848 N 11.036		182	345	78.594	N	7.340	41

BUOY ID 2891

JULY 1984

DAY	GMT	POSITION		DAY	GMT	POST	TION	
183	450	78.496 N 7.406	W	199	450	77.447 N	11.301	W
184	444	78.491 N 7.396	W	200	450	77.476 N	11.314	W
185	431	78.451 N 8.189	W	201	437	77.476 N	11.314	W
186	420	78.451 N 8.189	W	202	423	77.548 N	11.743	W
187	405	78.303 N 9.389	W	203	409	77.553 N	12.181	W
188	355	77.948 N 9.307	W	204	354	77,647 N	13.700	W
139	341	77.734 N 9.533	W	205	346	77.407 N	13.600	W
190	351	77,685 N 10,145	W	206	407	77.228 N	13.137	W
191	450	77.773 N 11.307	W	207	345	77.247 N	12.314	W
192	448	77,776 N 11,425	W	208	448	77.254 N	12.814	LI
193	435	77.800 N 12.788	W	209	437	77.465 N	12.613	W
194		77,547 N 13,382		210		77.559 N	13,111	
195		77.515 N 13.137	• •	211	411	77.433 N	13.995	
196		77.485 N 12.779	••	212	400		15.14/	
197		77.462 N 12.403	• •	213	• • •	77.419 N	15,146	
199		77 412 N 11 772	• •			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		. •

BUOY 10 2891

AUGUST 1984

DAY	GMT	POSITION		PΑΥ	GMT	POST	LION	
114	335 71	7.199 N 18.44	4 ы	717(8)	404	76.874 N	10,143	لما
215	323 70	7.000 N 12.19	A W	275	353	76.914 N	ा.अवल	ы
216	449 77	7.012 N 11.38	<u>∺</u> ⊌	230	434	76,995 N	9.847	M
217		7.087 N 11.06		231	412	76.899 N	JO.085	11
218	428 70	7.087 N 11.06	7 W	232	449	76.814 N	10.351	IJ
219	415 7	7.017 N 10.07	1 เม	233	444	7A.814 N	16.369	IJ
220	403 76	5.992 N 9.87		্টেডাৰ	439	74.729 N	100. 55%	نہا
221	349 7/	4.941 N 9.93	5 W	7/3/5	419	74.ASO N	11.102	الما
222	428 7/	4.901 N 9.88	ž W	236	407	76.678 N	41.400	H
223		5.915 N 9.90	1 W	237	354	76.718 N	10.602	W
224	449 76	4.989 N 9.95	6 W	238	443	76.760 N	40.570	إما
225	449 77	5.9 7 8 N 9.92	7 W	2,26.5	400	76.845 N	10.500	IJ
226		6.971 N 10.33	1 W	240	449	76.852 N	40.545	W
227		5.979 N 10.26	1 ฟ	741	4 7:17:	74.852 N	10,515	IJ

DATA BY MONTHS

MONTH: MAY 84 BUCK:

2891

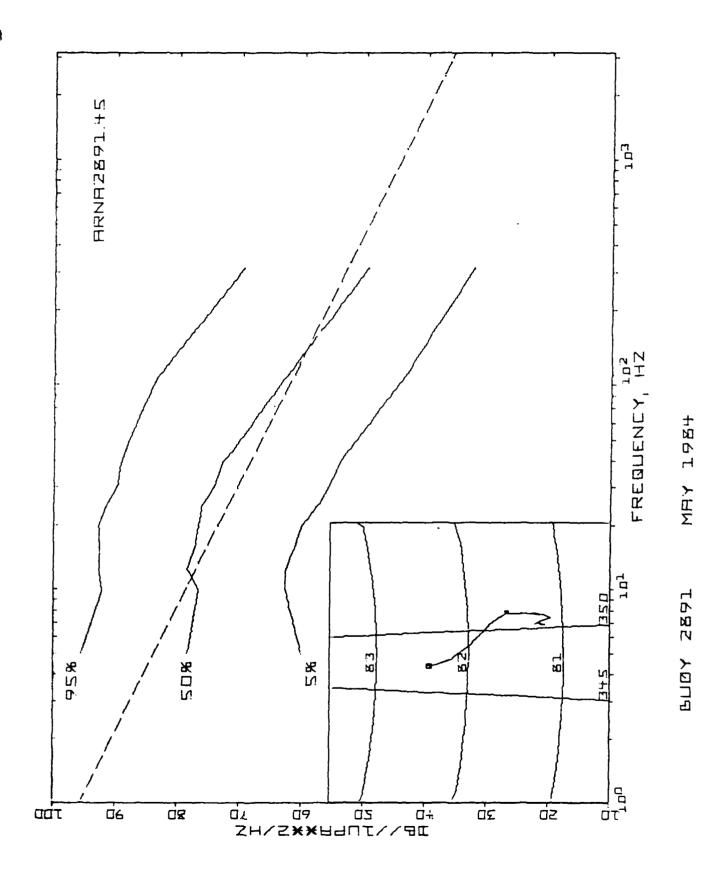
OUTPUT IN FILE ARNA2891

NORTH: -68.400 EAST: DISPLACEMENT (N. MI.): 73.011 DIRECTION (TRUE): 159.542

THE NUMBER OF DATA SAMPLES IS 246.

	Z	246	245	246	246	245	246	246	246	246	246	246	
	MAX	6.66	94.6	104.0	98.6	96.2	93.2	91.7	94.3	92.9	90.3	73.4	
	726	90.4	92.1	72.7	92.6	92.7	91.4	00 00 00	89.0	87.8	83.0	69.4	
	206	¢	89.68	90.4	91.0	90.2	89.2	86.0	0. 10 00	ი ლ	79.4	65.7	
	75%	33.4	83.6	84.4	84.1	83.2	83.8	81.4	8.62	77.3	72.2	96.9	
MEDIAN	20%	78.3	76.5	78.4	77.0	76.6	75.9	73.7	72.7	69.7	62.4	49.4	
E	25%	73.1	63.3	70.4	89.69	67.3	67.3	64.7	63.4	61.2	54.2	43.4	
	10%	64.3	64.5	64.4	64.1	62.0	80.3	53.7	56.2	54.8	48,2	39.0	
	2%	59.9	62.6	62.5	61.2	59.9	57.2	55.4	53.7	51.3	43.3	32.2	
	MIN	57.4	59.3	57.5	55.9	54.6	ਜੂਨ, 1	51.5	48.6	44.5	36.4	28.3	
STD .	DEV	7.6	დ დ	8°3	8.7	10.1	10.3	10.4	11.0	11.0	11.9	10.5	
			76.7										
FREQUENCY	HZ	5.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

**



MONTH: JUNE 84

BU0Y: 2891

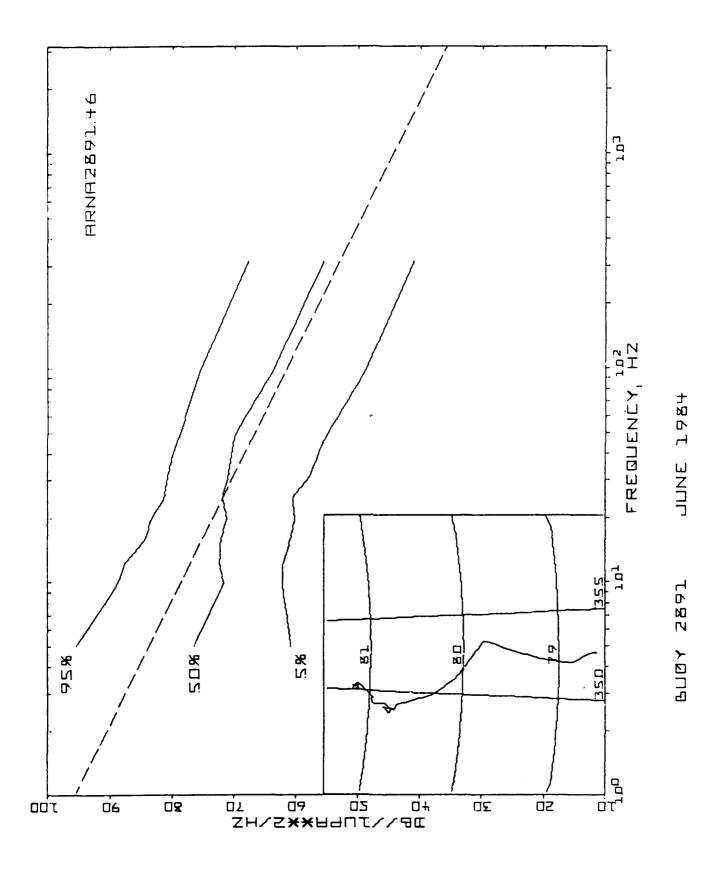
OUTFUT IN FILE ARNA2891

DISPLACEMENT (N. MI.): 155.842 NORTH:-153.660 EAST: 25.987 DIRECTION (TRUE): 170.416

THE NUMBER OF DATA SAMPLES IS 230

FREGUENCY		STD				Ī	MEDIUM					
HZ	AVG		MIM	57%	10%	25%		75%	206	796		Z
o.c	77.6		56.4	80.6	68. S	72.3		31.2	89.4	٠ ان ان	-	22.00
10.0	72.9		44.5	62.0	63.9	67.3		77.6	ි. ගි.	9.00		00 00 00 00 00 00 00 00 00 00 00 00 00
12.5	72.9	7.4	89. 89.	61.9	64.4	6.79	72.3	77.5	60 60	37.3	92.7	227
16.0	72.2		52.9	60.6	63.0	6.7.8		76.5	् स	84.1		000
20.0	71.5		57.1	59.9	62.6	66.1		76.6	`. ⊙©	(N)		200
25.0	71.3		54.0	60.3	62.2	66.3		75.9	79.4	81.1		300
31.5	70.2		50°.	57.5	60.6	6.4.8		75.4	78.7	80.6		000
40.0	68.9		38.2	56.2	0.00 0.00	62.6		74.6	78.	7.9.8		100
50.0	63.1		43.0	8.40	57.7	61.8		73.8	76.6	78.7		(K)
100.0	62.3		42.4	48.4	න ්	(1) (1) (1)		67.4	72.	75.0		226
315.0	54.0		4.18	40.9	44.4	0.00		59.7	63	67.5		230
STOP								•	•	•	l .	; •

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MÜNTH: JULY 84

RU0Y: 2891

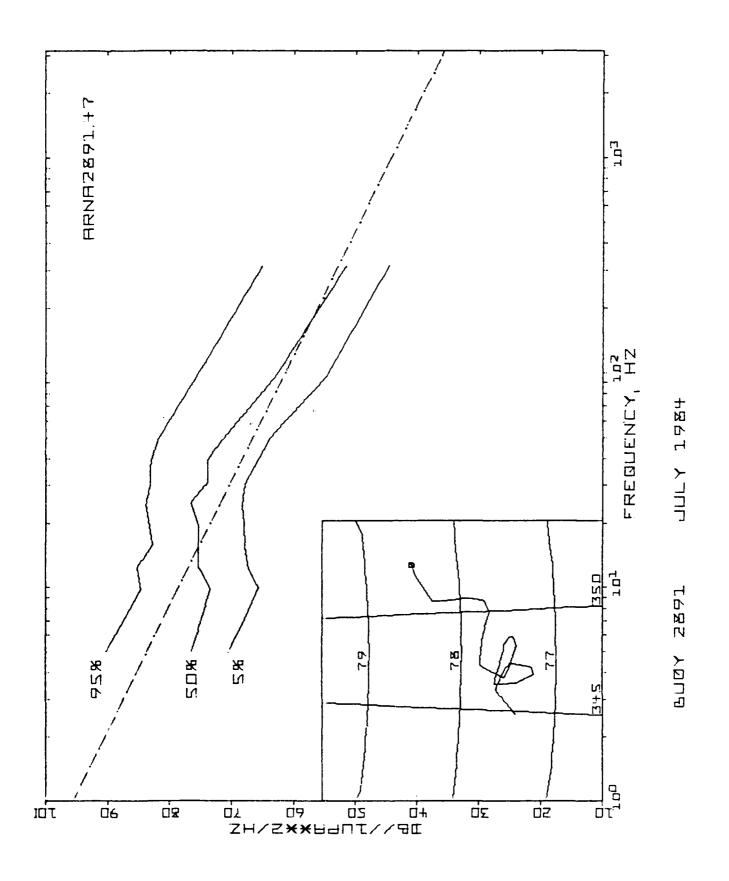
CUIPUT IN FILE ARNA2891

DISPLACEMENT (N. MI.): 116.560 NORTH: -64.620 EAST: -97.008 DIRECTION (TRUG): 236.359

THE NUMBER OF DATA SAMPLES IS 241

	2	2	0 0 0	040		047	747	240		\ \ \	040	000	0 (Q+\ \ \	741	0	N O N
	2	X 141.	S. VO	103.4		\	96.1	7.00		70.4	10 00 00	0.00	6 (6 (7 (Y	() () ()	75. 3	•
	/.uc	40.	0	2.4 1.5	0	V (0 N	0.00		0	0. 0.	000		0	(C)	6.4	
	7.00		/ .:	C. 000	4 0		· .	7. 00	0	·	\. \. \.	7.08			70.0). (1)	•
	76.7		<	ा ।	70.0	4 () (0.87	70.0	70.0	* 1	77.5	76.3		0 .	6.7.4	F.7. A	•
FEIAN	20%	1	* · · ·	70.00	75.0) (75.0	77. 5	5 I	/:%:/	73.7	0 1 7	· (ا ا	4.12	· ·
Ξ	797	0.0		60.7	71.4	0.00		72.1	40.0) L	1.1.1	10. 00.	67.0		> v	46.9	•
	10%	71 4		66.4	68.6	0.04	7	٠. رو	0.07) b	0.00	66.7	(C)) (7. D	44.4	
	2%	70.0) !	i) i) e	67.2	67 8) (· / ·	60.0	1 4 7	9.70	ស ស ខ	63.7	. (7	44.4	
	MIZ	67.1	. (/ *// 4	69.8	655.0		ं. इं	66.00	0 77	0	60.1	60.0	0	0	0	
STO	UEV																
	AVG						-										
FREQUENCY	ZH	ာ	40.01	70.01	12.5	16.0	0.00		0.0 N	10 (C)	• •	0.04	30°0	100 0) () () () (0.0	STOP

33



MONTH: AUG 1984

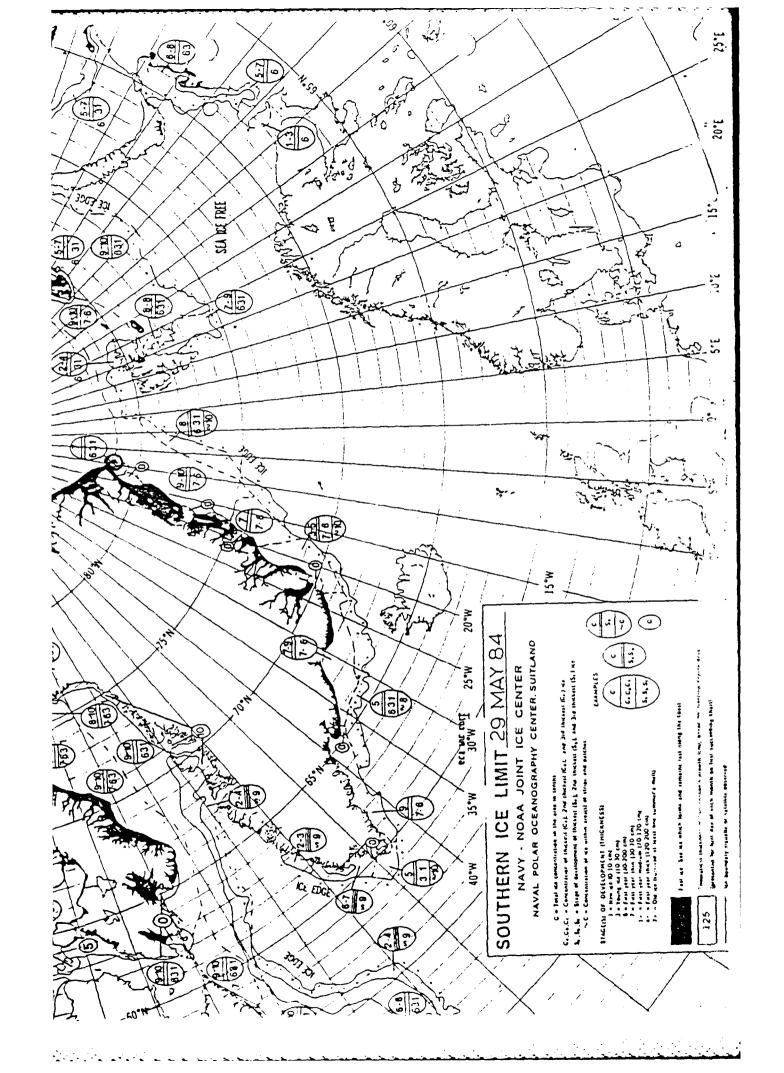
BU0Y: 2891

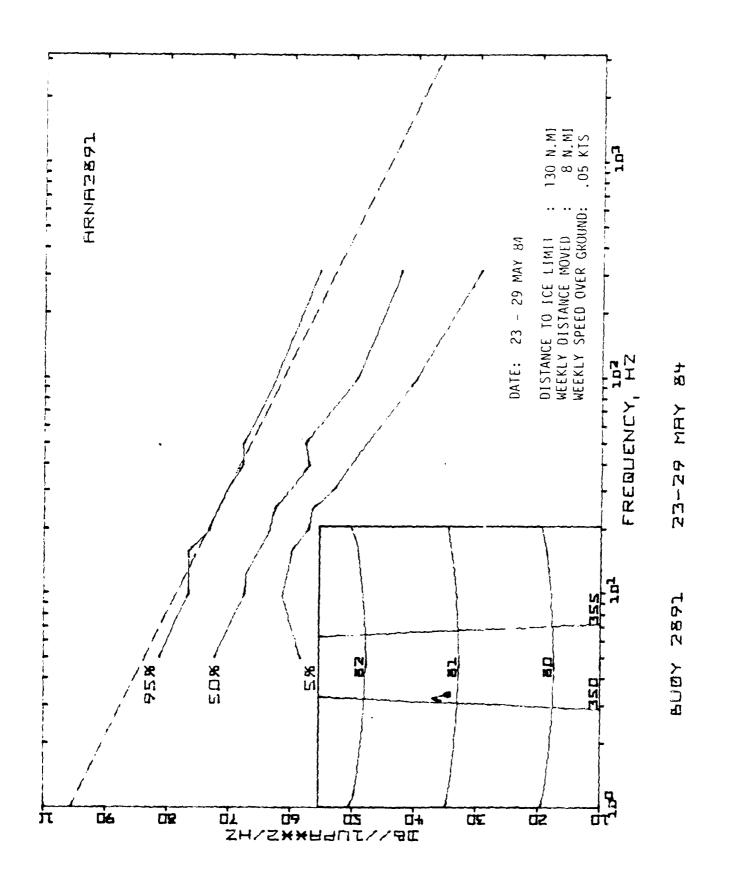
COTFUT IN FILE ARNASS91

DISPLACEMENT (N. MI.): 44.662 NORTH: "20.820 EAST: 39.513 DIRECTION (TRUE): 117.791

THE NUMBER OF DATA SAMPLES IS 200

	2	Z (>	00 0	00 Y	000	000	000) () () (200	200		A -	0 0 N	000	000		
	>	۲ <u>۰</u>) () () () () () () () () () (្ត () () ()	() ()	26.2	000	N .	100	0.00	100		₩ 9.	77. 0	9		
	\u00e4	* CO1	* L	5 t	o O		88.6	67.0		1. /0	86.7	0 6)))	73.4	0.02)		
	7.00		7 -		; (; (0.0	୍. ଜେ	0.70	100		⊕. 0. †⊛	0 0) (× .	€ (*)	•		
	16.1	0.70	· -		000	V . E	0. 0.	82.6	0 0	\	() () ()	0) - 0)	•	4.4	0 . 22. 0))		
MEDIAN	705			77.0														
Σ	752	78.	75.4	70.07	77.5		76.6	77.2	77 15	1	9.//	77.3		1.00	() ()			
•	10%	75.2	0 67	71.4	0.00	3 () ()	7.8.5	74.3	74.6	· ·	÷.	7.0.00	0 77	0.00	(N)			
	5%	73.9	67.3	69.0	71.0) ·	12.1	72.3	72.6	1	/ 5. /	72.6	6.67)	47.4			
	ΣIN	69.2	63.9	66.3	67.8	7.7.0	0.10	65.1	4.69 4.69	1 77	000	61.2	- Cit	. (43.4			
STD	DEV																	
	AVG	33.6	77.3	78.3	©. 0.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	70 1) · · · (0.00	30.1	000		79.5	72.0	. (60.3			
FREQUENCY	Z\1	၀ က်	10.0	12.5	16.0	0.00) · 10	0.07	ان ان	40.0		0.00	100.0	i di ti	0.010	©10P	c	=





MONTH: 23-29 MAY 84 BUGY: 2891

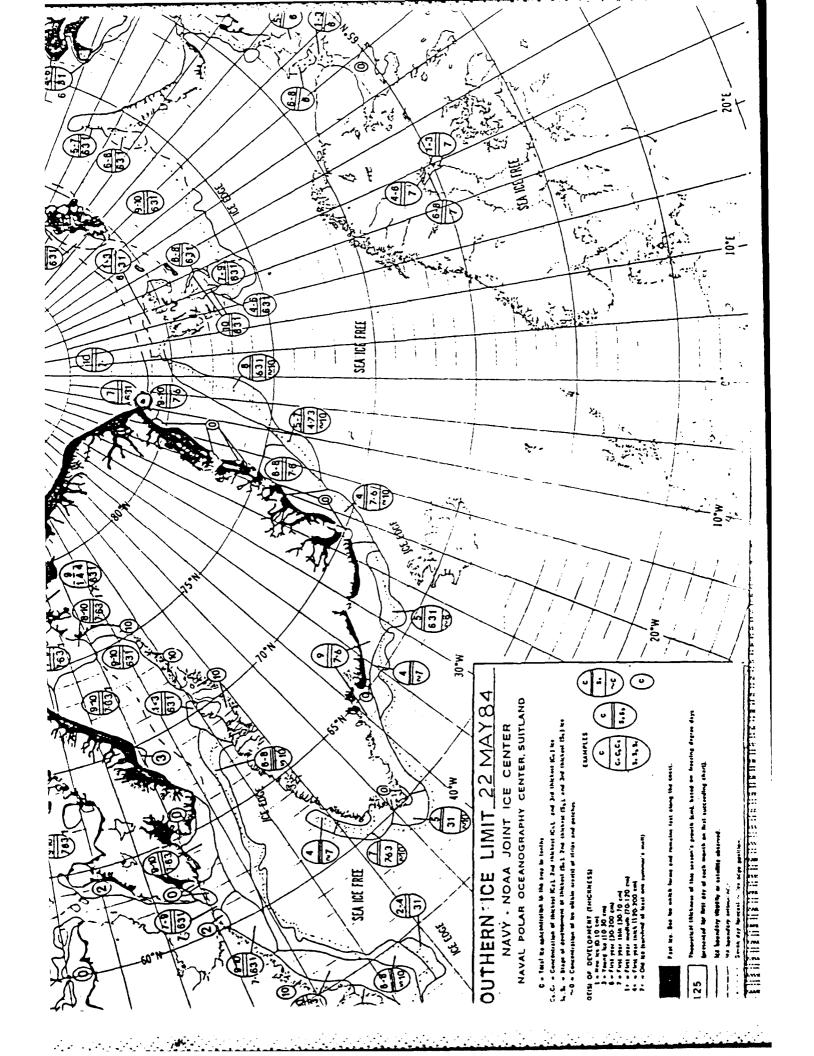
CUITFUL IN FILE ARNAZ891

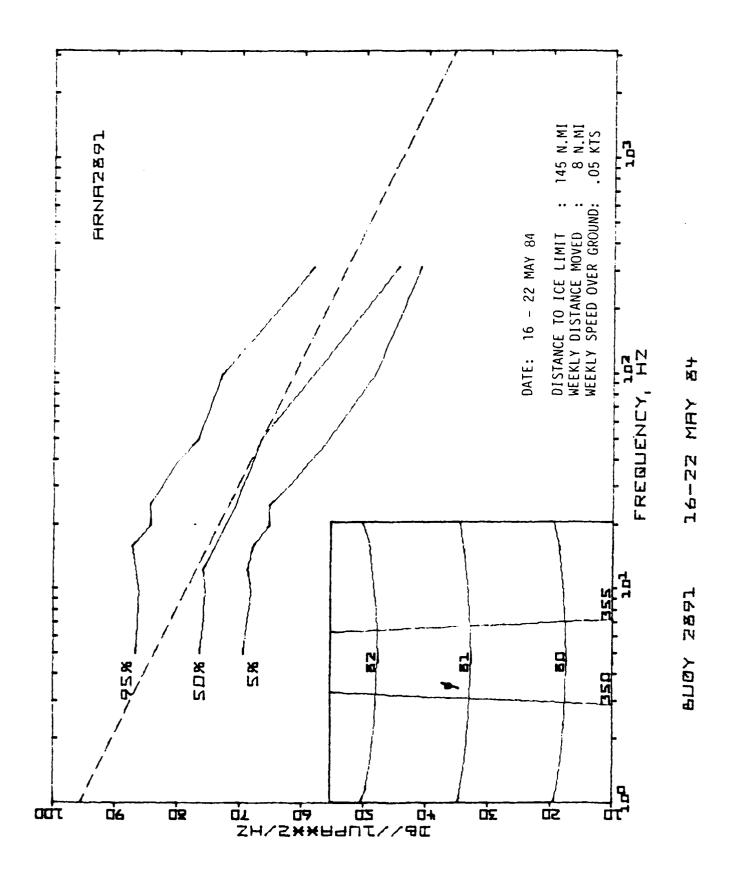
-2.490 7.259 EAST: DISFLACEMENT (N. MI.): 7.674 NORTH: DIRECTION (TRUE): 341.049

THE NUMBER OF DATA SAMPLES IS 56

	Z	90 90	90	ý.	7.	មា មា	Š	9 10	ي. دا	e U	90	56	
MEDIAN	MAX	00.00	83.6	84.0	91.0	92.7	88.0	90.1	90.8	6.26	គេ ភេទ	74.5	
	756	81.2	76.5	76.4	76.5	73.0	71.8	70.1	67.7	67.8	62.4	55.4	
	206	78.	71,5	73.3	71.0	73.0	89.8	4.34	64.9	66.6	0.00 000	033.4	
	75%	75.2	70.5	70.4	68.5	67.0	65.7	64.1	60.7	0.09	54.4	46.9	
	20%	72.3	4.7.4	67.2	ତ ଃ	60.00	62.6	59.7	6.95	57.7	49.3	42.2	
	25%	61.8	6.4.5	(S)	63.1	61.3	4.65	છ. જ.જ.	54.6	52.6	44.1	34.9	
	10%	59.1	62.0	61.9	60.6	6.69	S. 95	54.6		49.7	40.8	30.4	
	% S	က က ကြ	6.1.4	60.6	0.0°	57.1	56.5	52.6	50.2	47.8	39.68	4.62	
	NIE	57.4	59.3	57.5	(A. 1)	54.6		5	48.6	44.5	36.4	28.3	
0110	DEV	ი დ	4.7	4.0	တ က	დ. დ.	6.9	6.9	6.8	7.6	က ထ	8.6	
	AVG	69.8	67.7	67.6	66.7	65.1	63.3	80.8	50.4	57.7	10 (10 (11)	42.0	
FREGUENCY	117	ဝ ံ ပေ	10.0	12.5	16.0	20.0	25.0	91.0	40.0	50.0	100.0	315.0	STOP

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MONTH: 16-22 MAY 84 BUDY: 2891

CUITPUT IN FILE ARNA2891

-2.212 -7,540 FAST: 7.877 NORTH: DISPLACEMENT (W. MI.): DIRECTION (TRUE): 196.331

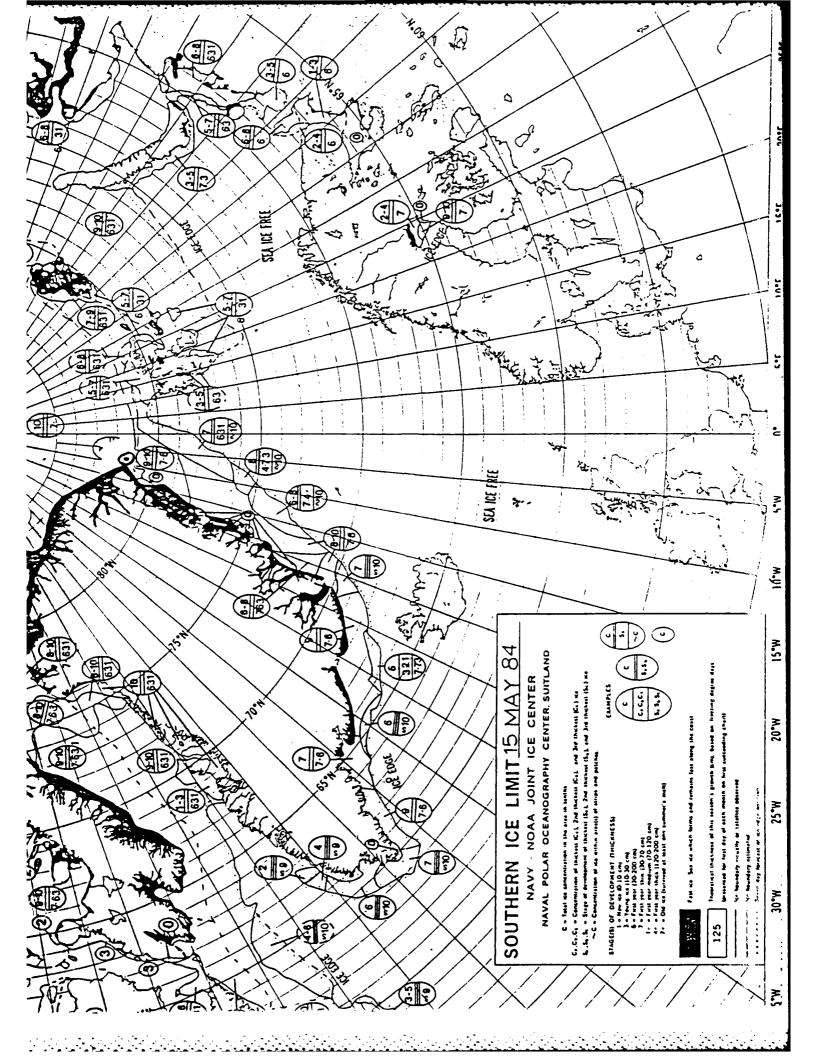
THE NUMBER OF DATA SAMPLES IS 54

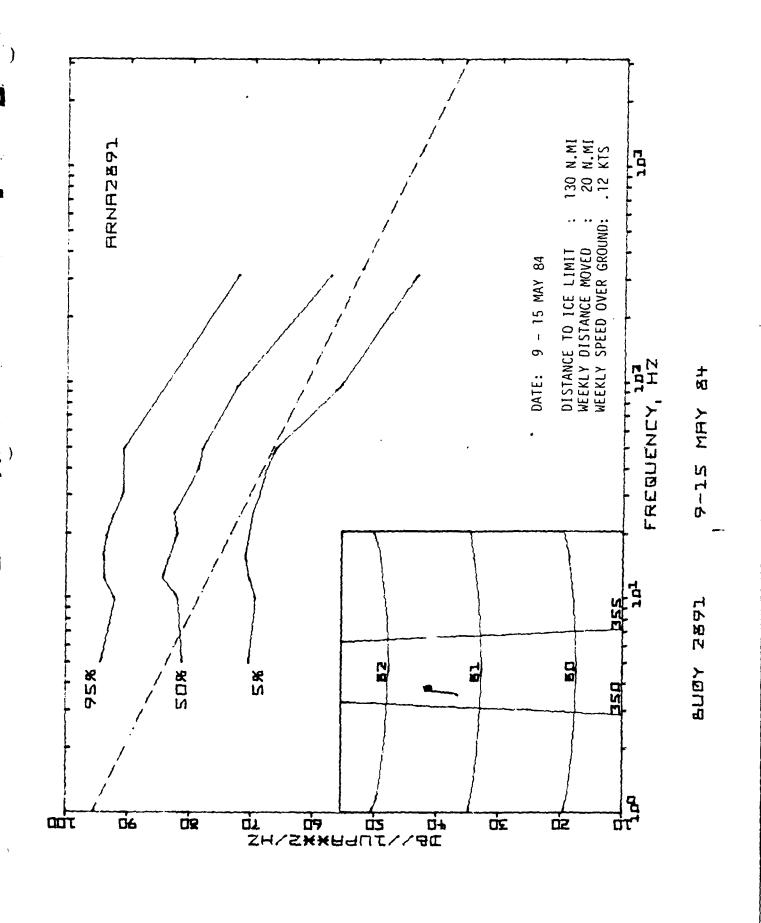
	Z	10 4	က က	54	<u>1</u> 14	4 0	7.4	94	54	54	4.	54	
	MAX	91.9	9.68	87.9	91.0	92.7	91.4	90.7	90.2	20.7	∞ .×	75.4	
	756	86.6	86.1	86.7	87.3	84.2	84.4	8.7	26.62	76.6	72.8	<.00 €.00 €.00 €.00 €.00 €.00 €.00 €.00	
MEDIAN	206	ا الله الله	83,6	၏. က	00 107 00	٥. ش	0. 0. 0.	31.4	20.62	75.7	67.4	£6.5	
	75%	02. 4	80.1	e. 18	60 60 60	82.0	81.1	13.7	77.6	74.8	62.4	4.0.4	
									67.7				
	%: }:	73.9	70,5	71.4	71.0	69.3	67.3	66.6	63.4	60.0	82. s	42.8	
	10%	70.3	68.7	69.2	©.89	67.0	65.7	61.6	60:1	57.7	48.8	41.6	
	2%	69.2	68.0	68.6	67.8	65.1	65.1	61.6	58.7	55.7	48.2	40.9	
	MIN	63.4	63.6	67.2	65.0	63.2	61.1	60.6	58.2	52.0	38.1	31.4	
STD	DEV	் ம	6.1	တ ဟ	6.7	7.1	7.5	7.5	 	ο. Ο	0.0	7.4	
	AVG	77.7	76.0	76.5	76.3	74.5	73.6	71.6	88.69	67.4	59.1	47.3	
FREQUENCY	HZ	O.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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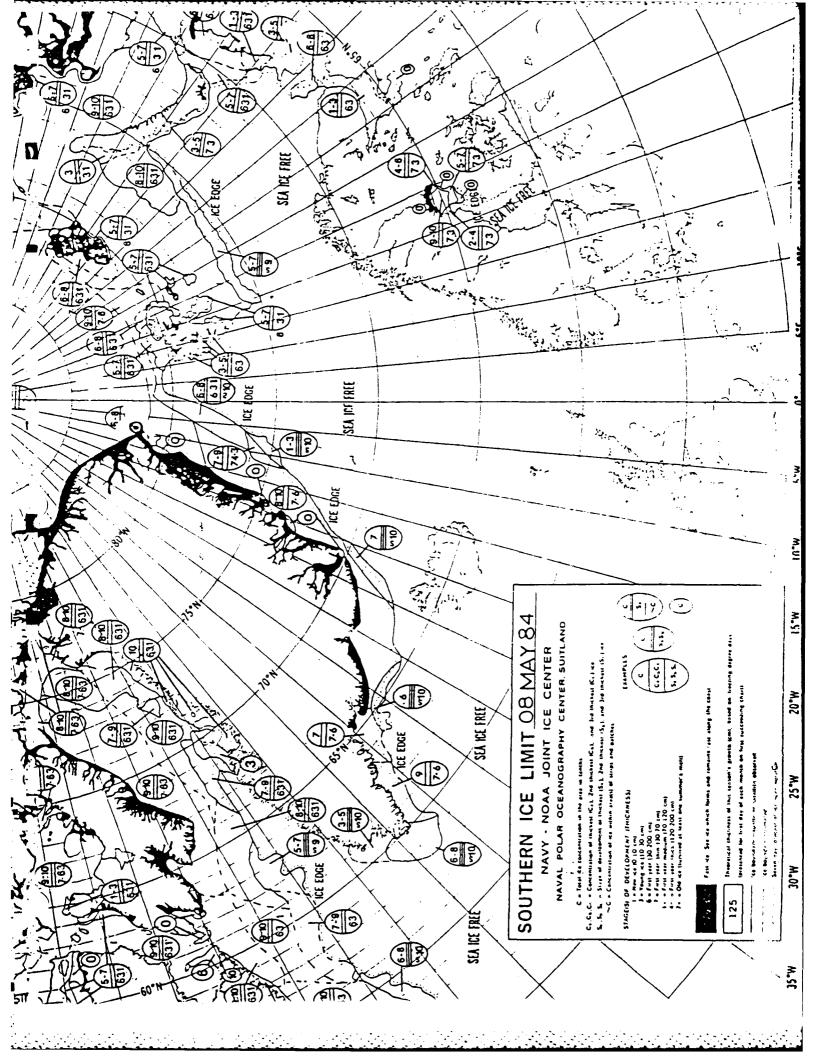
MONTH: 9-15 MAY 84 RUDY: 2891

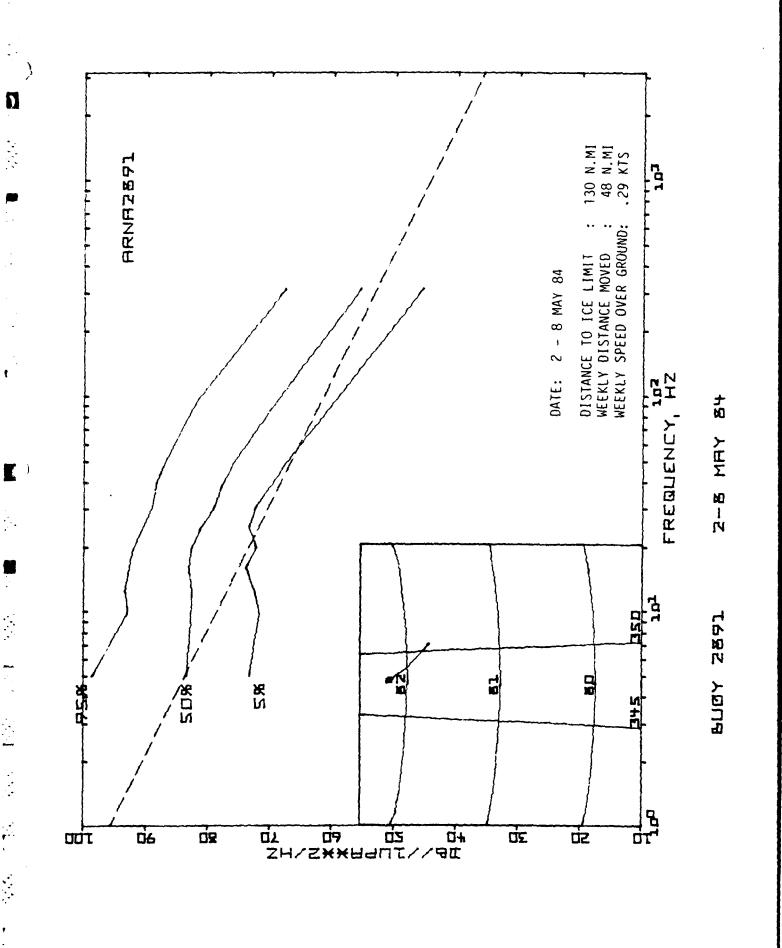
CUTPUT IN FILE ARNAZESI

DISPLACEMENT (N. MJ.): 19.838 NORTH: -19.440 EAST: DIRECTION (TRUE): 191,513

THE NUMBER OF DATA SAMPLES IS 56

	Z	ŝ	્ર ()	90	9 9	56	S E	9	95 G	90	90 01	90	
	HAX	93.6	94.6	104.0	98.6	≥.96	93.2	91.7	92.7	91.9	90.3	78.4	
	796	94,4	92.1	93.9	93.9	93.4	92.3	90.7	90.8	20.7	83.6	72.3	
	20%	93.0	91.3	92.7	0,00	25.7	91.4	90.1	89.0	87.8	88.0 0	70.3	
	75%	4.60	9.88	90.4	91.0	90.2	0.00 0.00	87.4	တ က တ	84.7	79.4	65, 7	
DIAN	202	⊗. 	82.0	84.4	89.1	82.0	82.6	80.6	78.7	73.0	72.2	57.4	
Œ	25%	76.4	76.5	78.4	77.0	75.3	75.9	72.6	71.5	68.8	61.4	46.2	
	10%	73.1	70.5	71.4	72.9	71.1	70.5	69.4	68.6	67.2	000 000	44.4	
	2%	70.3	69.3	70.4	71.0	70.5	8.69	68.5	67.7	66.0	0 10 10 10 10 10 10 10 10 10 10 10 10 10	43,4	
	MIN	69.2	66.4	69.2	8.69	6.69	68.2	66.6	66.7	6. 10.	(C)	42.2	
STD	UEV	7.7	7.7	o. e	6.7	ري ص	7.6	7.8	7.9	თ თ	6.6	10.3	
	AVG	82.8	81.9	34.0	რ ლ	82.7	82.2	80.3	79.1	77.7	71.0	57.0	
FREGUENCY	HZ	0,0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





MONTH: 2-8 MAY 84 BUIDY: 2891

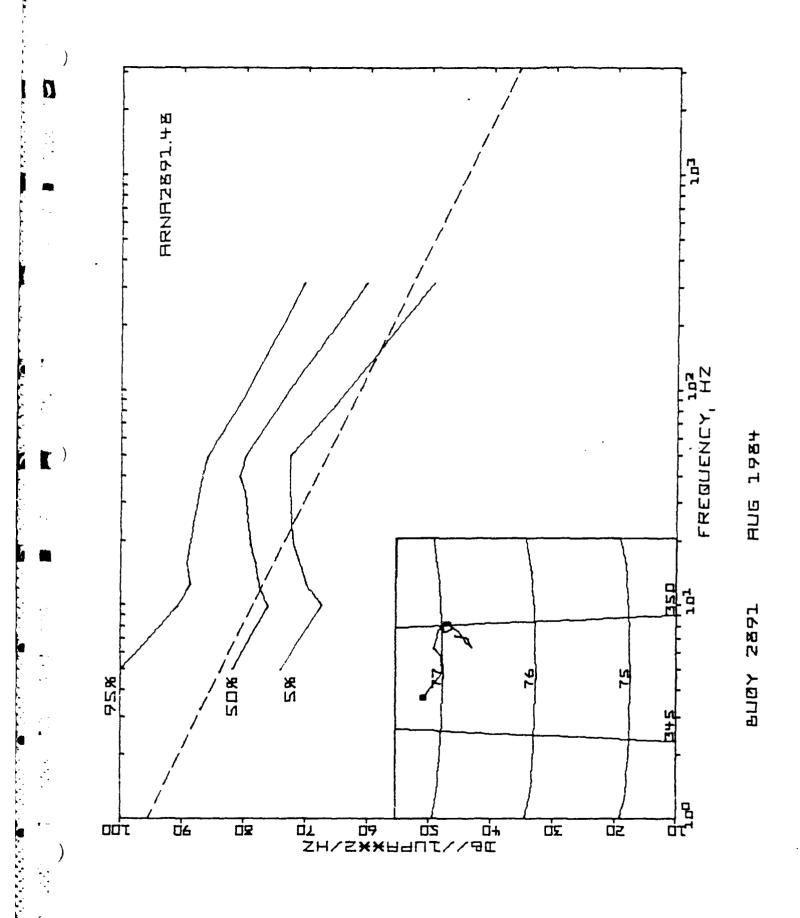
OUTPUT IN FILE ARNA2891

29.295 DISPLACEMENT (N. MI.): 47.775 NORTH: -37.740 EAST: DIRECTION (TRUE): 142.190

THE NUMBER OF DATA SAMPLES IS 56

	Z	S E	99.	90 0	φ (0)	9 10	95 2	9 6	99	÷ E	9 10	90	
	MAX	6.66	94.0	94.5	97.0	94.6	92.3	51.7	94.3	93.0	84.9	71.7	
	796	98.6	92.8	99.9	22.6	91.9	90.4	0.00	ი თ	96.9	81.4	67.5	
	206	6.76	92.1	92.0	% .∵ ∞	91.1	0. 0. 0.	36.6	86.7	0.00 0.00	79.4	6.99	
	75%	94.4	88.6	00 00 01	 600	88.6	87.1	84.7	% 4. %	82.6	76.2	61.5	
EDIAN	20%	83.4	87.6	88. 10		82.6	91.1	73.7	77.6	75.7	68.4	55.4	
Σ	25%	79.1	78.5	79.2	79.8	79.1	78.4	77.5	73.7	73.8	65.6	50.4	
	10%	75.2	74.0	75.3	76.5	76.6	75.1	73.7	71.5	69.7	62.4	46.9	
	% S	73.1	71.5	72.3	73.8	72.1	73.4	72.1	69.5	67.2	98. 9	45.3	
	Σ	71.4	69.3	70.4	8.69	6.69	8.69	67.6	66.7	64.5	58.1	43.4	
STD	DEV	(n) (0)	6.6	6.4	6.2	6.0	5.7	មា មា	6.2	6.2	6.9	7.5	
	AVG	80°8	83.1	83.0	84.0	80 90 10	82.4	80.7	79.2	77.7	70.7	56.1	
FREQUENCY	HZ	ဝ. က	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

DATA BY WEEKS



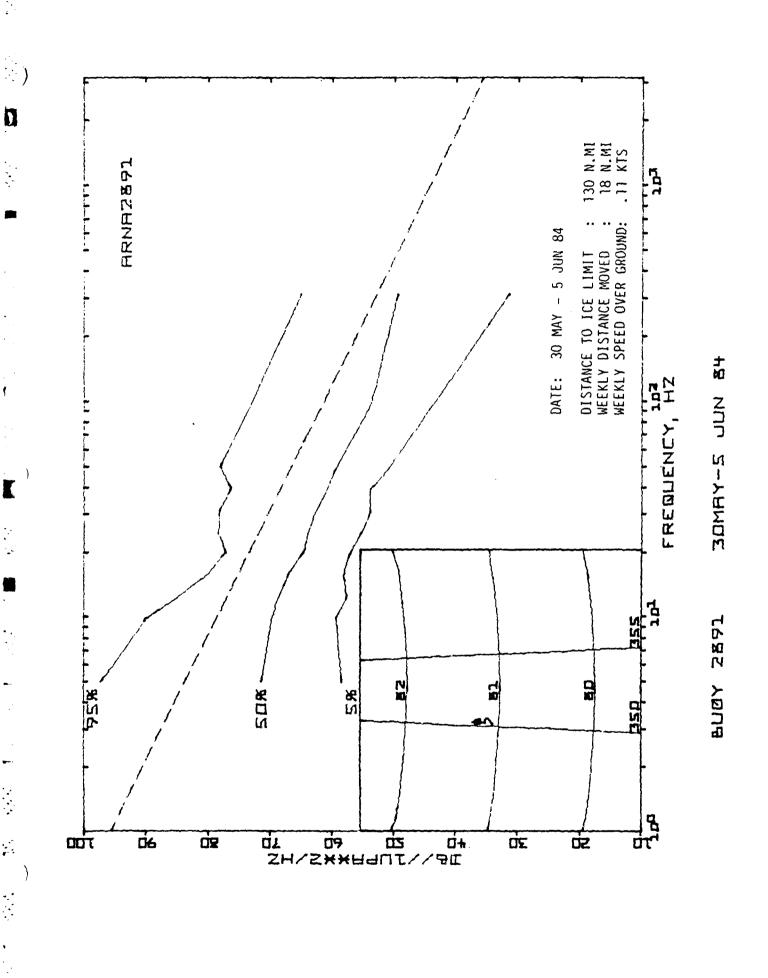
MONTH: 30MAY-5 JUN 84 BUDY: 2891

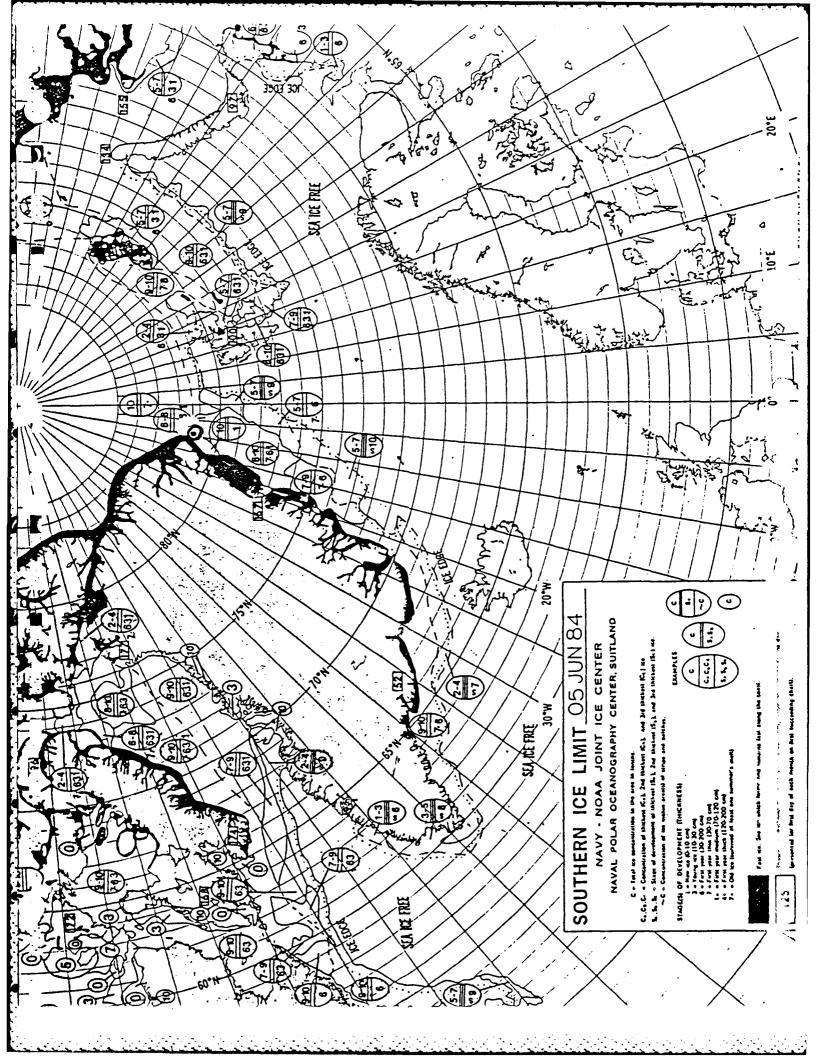
CUTFUT IN FILE ARNAZ891

DISPLACEMENT (N. MJ.): 17.626 NORTH: ~16.380 FAST: DIRECTION (TRUE): 201.693

THE NUMBER OF DATA SAMPLES IS 56

FREQUENCY		STD				Σ	EDIAN					
HZ	AVG	DEV	NIE		10%	25%	50%		200	756		Z
ં છ.	72.5	_	56.4	-	50	63.4	71.4		36.6	97.2	-	មា មា
10.0	70.5		10°90	59.0	60.1	64.5	69.6	74.0	78.5	9.68	98.1	S E
12.5	69.6		56.4		61.3	64.4	68.6	•	77.5	84.4		្រ ព្រ
16.0	67.5		00 01		59.0	61.9	6.99	•	74.5	79.8		99
20.0	66.0		57.1		0.0 0.0	60.7	64.5	-	73.0	77.1		្វា
25.0	65.7		54.0		57.2	60.3	63.03	•	74.3	78.4		95
31.5	64.1		50°8		55.4	57.5	62.5	_	72.6	78.1		99
40.0	63.2		50°9		54.6	56.9	60.7	-	72.7	76.2		90
50.0	61.8		48. 8		0. 0. 10	○ • <p< td=""><td>96.60 8.60</td><td>-</td><td>71.3</td><td>78.0</td><td></td><td>Ç F</td></p<>	96.60 8.60	-	71.3	78.0		Ç F
100.0	56.1	• •	40.8		44.1	49.3	ស (១) (១)	-	67.4	72.8		
315.0	49.6	•	30.4		36.35	42.5	49.4		61.5	65.0		\(\frac{1}{2}\)
STOP												





BUOY: MONTH: 6-12 JUN 84

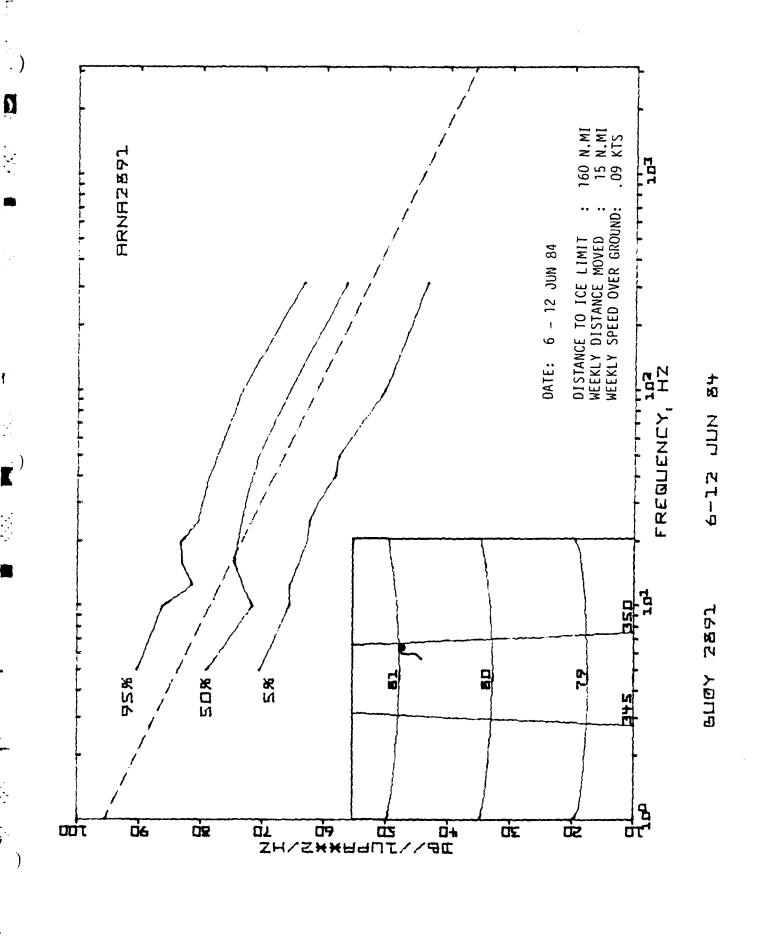
2891

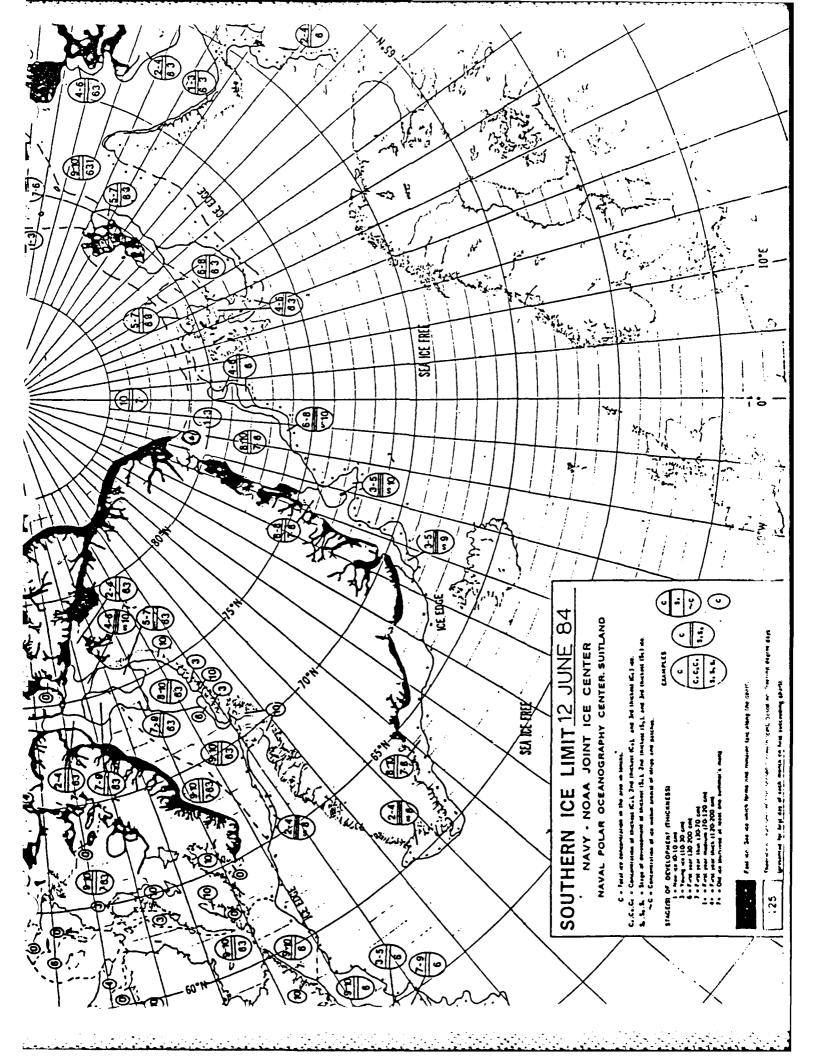
CUIPUT IN FILE ARNA2891

DISPLACEMENT (N. MI.): 14.804 NORTH: -11.160 EAST: DIRECTION (TRUE): 221.100

(N THE NUMBER OF DATA SAMPLES IS

FREQUENCY		STD				Σ	EDIAN					
ZH	AVG	DEV	ZΙΣ	% S	10%	25%		75%	706	726	MAX	Z
O.	79.1		67.8	70.3	71.2	73.9	•	83.4	87.2	90.0	96.4	(N) (D)
10.0	73.7		64.5	65,5	67.3	6.69	71.5	77.6	82.6	86.1	87.4	N IO
12.5	73.7		64.4	65.4	67.9	69.2	•	76.4	80.6	 6.	92.7	(N)
16.0	73.5		0.00 0.00	69.8	66.0	67.9	-	78.1	81.2	83,1	93.9	() ()
20.0	72.7		60.00	62.6	63.9	67.9	•	77.1	80.7	83.5	87.4	8
25.0	72.8		60.3	62.2	63.1	67.3	-	77.2	79.4	80.3	87.1	8
S1.0	71.7		59.4	9.09	65.3	66.6		76.2	78.7	79.7	85.7	e E
40.0	70.1		56.2	ଅନ୍ତ ଅନ୍ତ	58.7	6.4.	-	75.5	78.7	78.7	82.9	S
50.0	e 69		56.6	57.7	50.0	62.8	-	74.8	76.6	77.3	83,4	N E
100.0	63.7		48.4	50.2	51.6	57.3	-	70.2	72.2	73,4	76.2	О 10
315.0	00 00 01		38.5	43.4	45.0	50.4		6.09	62.5	63.4	67.5	N 10
STOP												





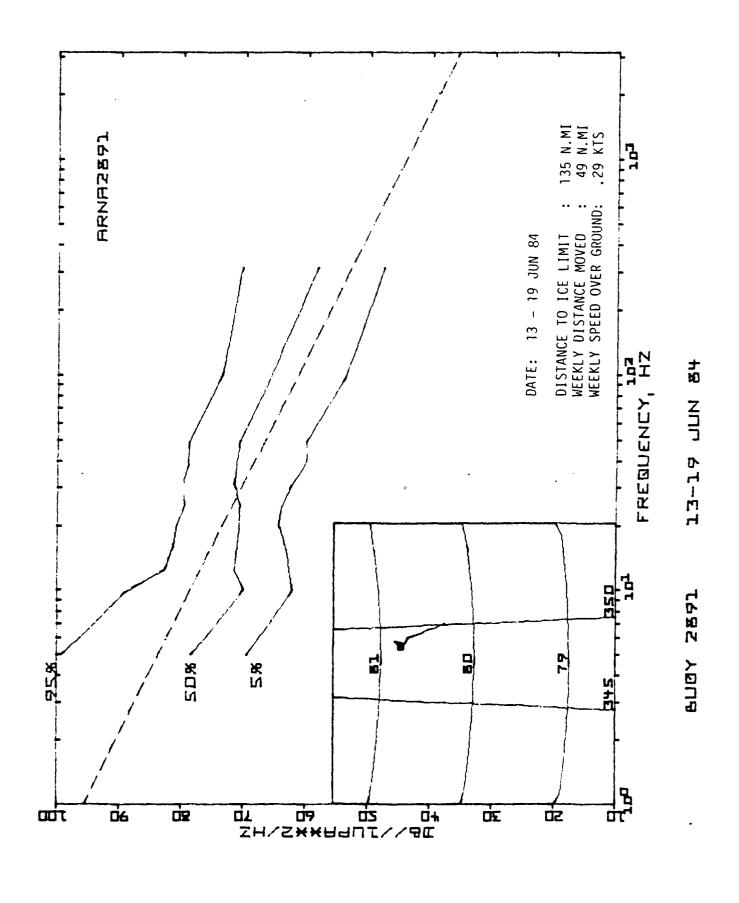
MONTH: 13-19 JUN 84 RUOY: 2891

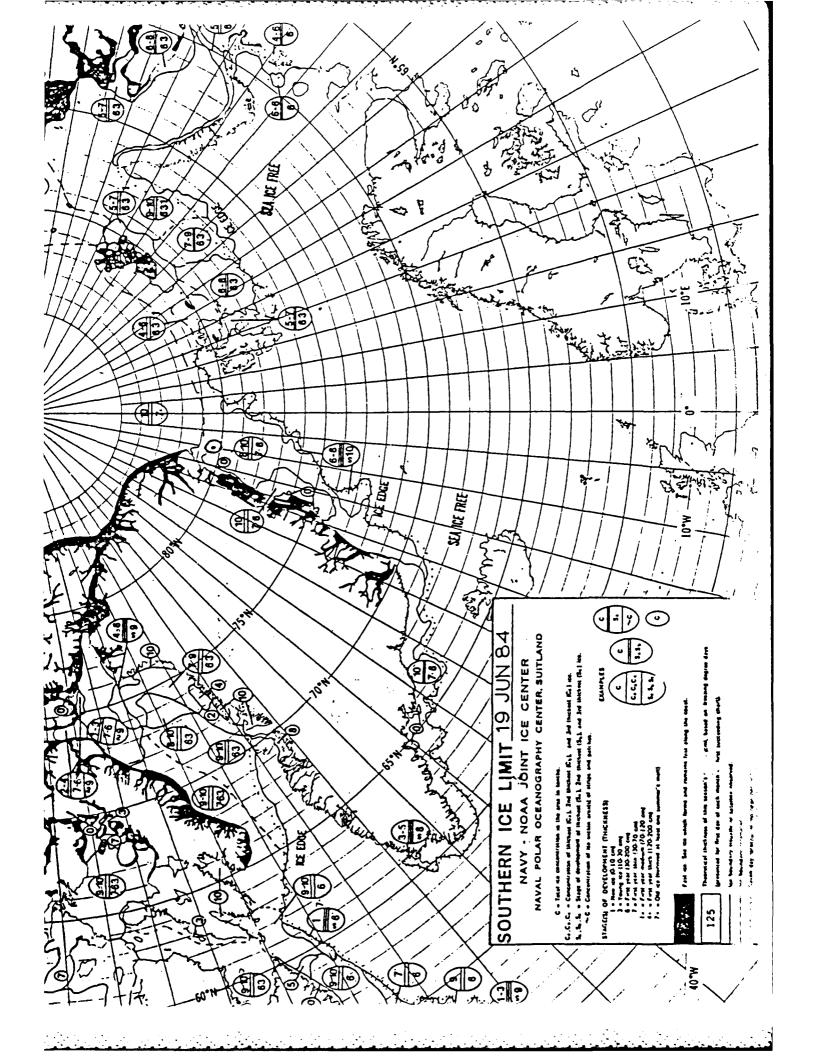
OUTFUL IN FILE ARNA2891

25.078 DISPLACEMENT (N. MI.): 48.660 NORTH: -41.700 EAST: DIRECTION (TRUE): 143.988

THE NUMBER OF DATA SAMPLES IS 52

									83.6 51				
	796	6. 6.	88.6	88. 88.	81.2	80.7	79.4	79.7	78.7	73.7	73.4	70.3	
	20%	6.16	SO. 1	77.5	79.0	78.2	7⊜.4	78.7	78.7	76.6	73.4	80°.	
	75%	81.2	74.0	73.9	74.5	74.6	74.3	73.7	74.6	74.8	68.4	62.5	
MEDIAN									70.9				
Σ	25%	73.9	66.4	67.9	67.8	67.9	67.3	67.6	66.1	67.2	62.4	55.4	
	10%	70.3	69.9	63.5	65.0	65.1	64.5	63.4	60.7	61.2	00°0	ი. და	
	2%	69.2	62.0	62.6	63.1	64.2	63.8	62.2	50°.0	0.09	10 10 10 10	47.5	
	NΙΝ	60.6	44.5	90 7	00 00 00	62.6	61.9	59.7	38.2	59.3	52.1	46.2	
STD	DEV	10.1	۵. 4	0. 0.	6.2	3.2	1	6.5	7.6	5.7	6.1	10.3	
	AVG	79.7	71.0	71.5	711.7	71.4	71.0	71.4	70.1	20•ਹ	65.5	59.7	
FREGUENCY	HZ	O.W	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





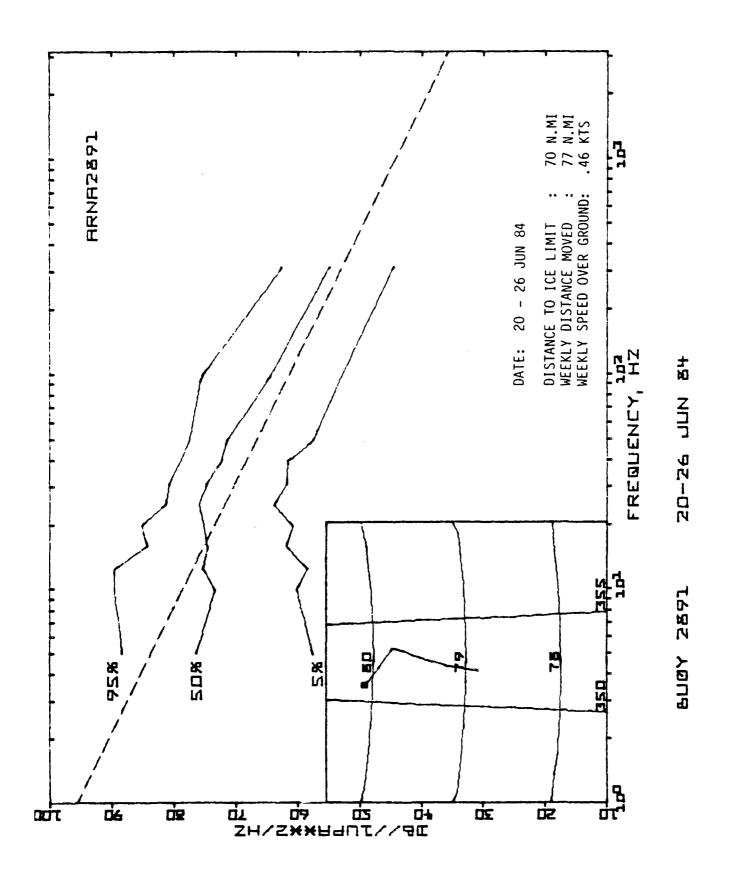
NONTH: 20-26 JUN 84 RUDY: 2891

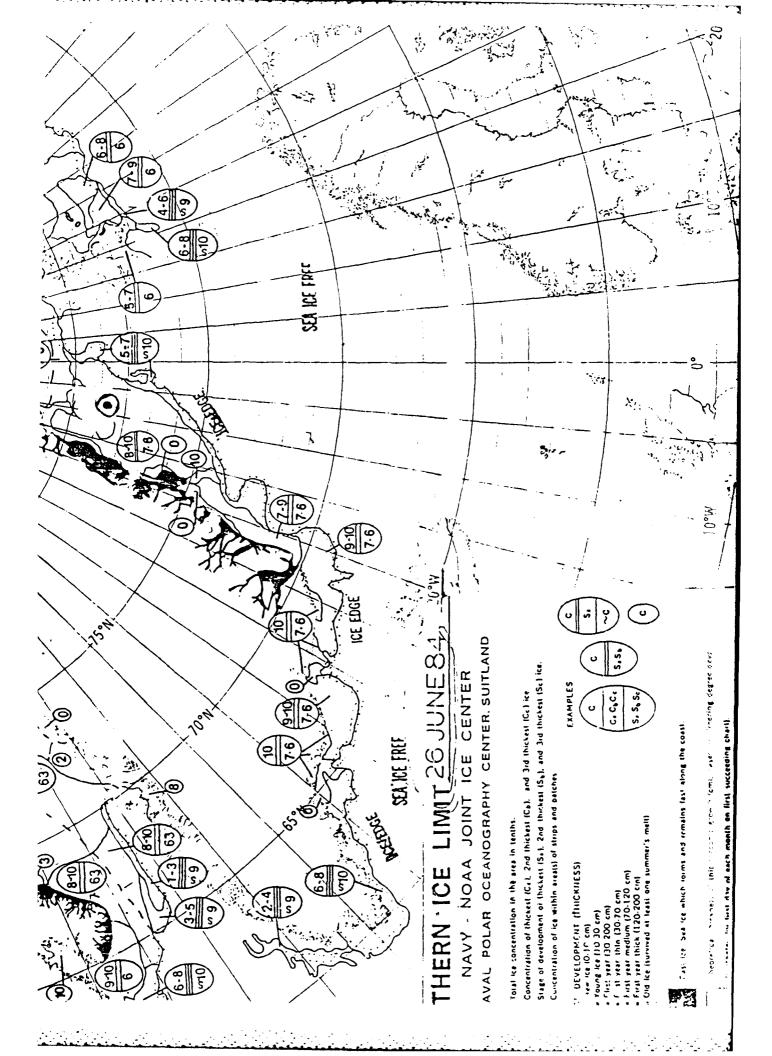
OUTFUL IN FILE ARNA2891

DISPLACEMENT (N. MI.): 77.138 NORTH: -76.200 FAST: 11.893 DIRECTION (TRUE): 171.071

THE NUMBER OF DATA SAMPLES IS 54

FREQUENCY		STD				Σ	MFTITAN					
ZH	AVG	DEV	ZΙΣ	21%	10%	25%	50%	75%	706	126	MAI	Z
o. ស		0.0	56.4	57.4	63.4	75.2	76.4	œ. ₹	87.	0.00	90.0	Q
10.0		9.4	57.6	60.1	62.6	46.4	73,3	82.6	9.88	89.6	90.5	() ()
12.5		ю Ф	53.2	53.4	61.9	67.2	75.3	82.5	87.9	00 00 11	90.4	54
16.0		7.5	52.9	61.9	63.1	8.69	74.5	79.8	න දිරි	84.1	89.1	514
20.0		7.5	57.1	60.7	61.3	6.69	75.3	80.7	82.0	 GO:	83.9	90
25.0		5.7	59.4	63.8	64.5	71.2	75.9	78.4	80.0	81.1	83.2	54
0.16 0.10		6.0	000 1.000	61.6	65.9	67.6	74.6	76.8	78.7	80.6	00°	6
40.0	71.0	ထ က	59.8	61.5	61.7	66.1	72.1	74.6	77.6	78.7	86.7	54
50.0		6.4	57.3	57.3	0. 0. 0.	66.6	71.3	73.8	77.3	77.3	Ø. ©	54
100.0		7.0	51.6	52.8	53,4	6.6	64.1	67.4	68.4	75.0	81.4	(*) 10
315.0		о. 10	40.9	44.4	45. 0	50.4	54.9	57.4	60.3	62,5	71.0	54
STOP												





MONTH: 27JUN-3 JUL 84 RUOY: 2891

CUITFUL IN FILE ARNA2891

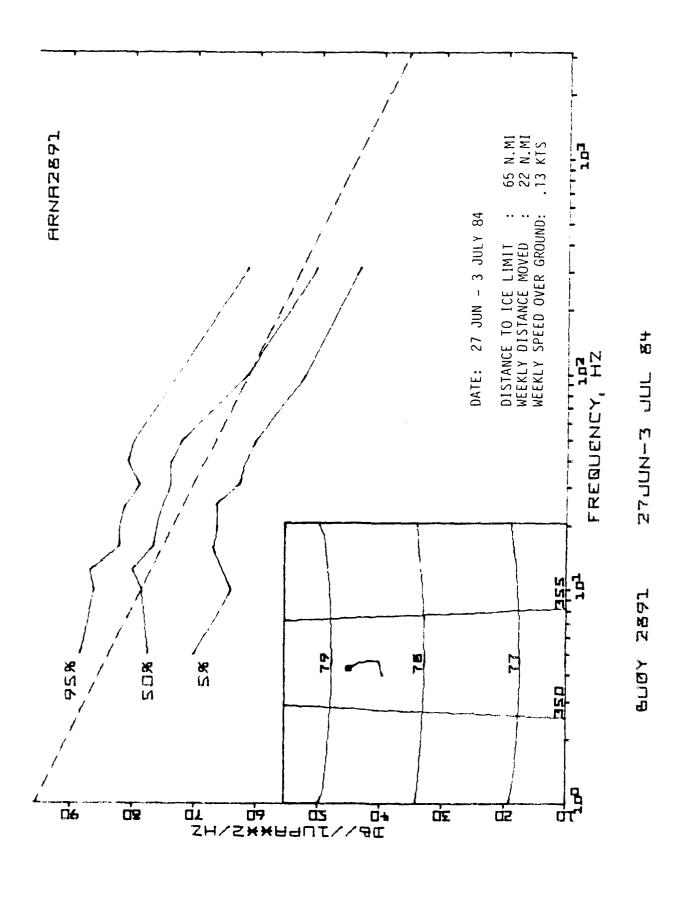
DISPLACEMENT (N. MI.): 22.052 NORTH: -21.660 EAST: DIRECTION (TRUE): (90.848

THE NUMBER OF DATA SAMPLES IS 54

	z	54	54	54	10 10	54	(N) (D)	φ 0	N D	₽	54	54	
	MAX	100.4	91.3	91.2	84.1	84.2	84.4	81.4	8.4.2	84.7	76.2	65.0	
	1.50	88.4	86.1	36.7	9.0	82.0	81.1	78.7	80.7	79.8	72.8	61.5	
	703	00 4	ος 100 100 100 100 100 100 100 100 100 10	86.0	⊙ ∵:	80.7	- TG	78.7	79.8	79.3	71.6	59.7	
	75%	6.62	82.6	33.0	79.8	78.2	78.4	76.8	76.9	74.8	69.3	57.4	
MEDION	50%	77.4	78.5	80.0	76.5	76.0	75.1	73.7	73.7	72.0	4.1.4	50.4	
Z	757	73.1	6.69	71.4	72.0	71.1	70.5	70.1	67.7	6.53	ា ភូមិ	45.3	
	10%	71.4	64.5	66.3	67.8	66.1	66.3	64.8	62.6	9.09	52.8	44.4	
	22	69.8	63.9	65.4	6.99	66.1	66.3	62.5	61.7	60.09	52.1	43,4	
	Σ	63.5	60.00	64.4	66.0	65.1	65.1	61.6	60.7	69,3	46.3	43.4	
STD	DEV												
	AVG			77.8									
FREGUENCY	ZH	ဝ က်	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP

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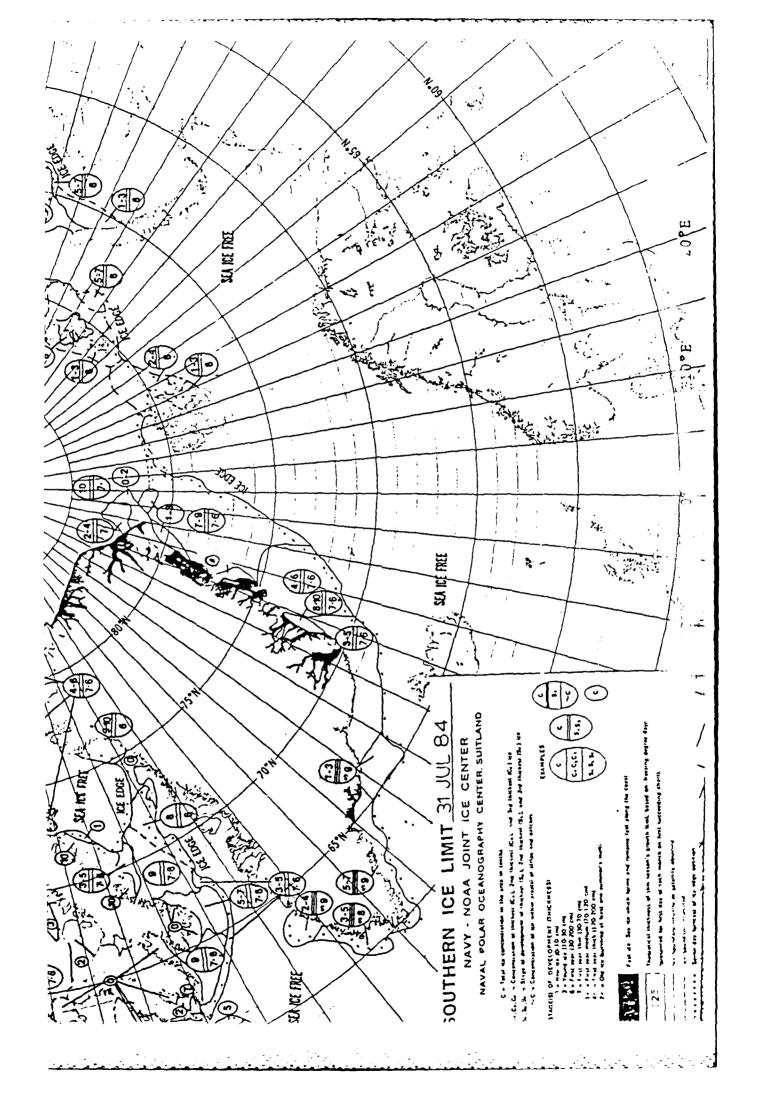
MONTH: 1-7 AUG 84 BUDY: 2891

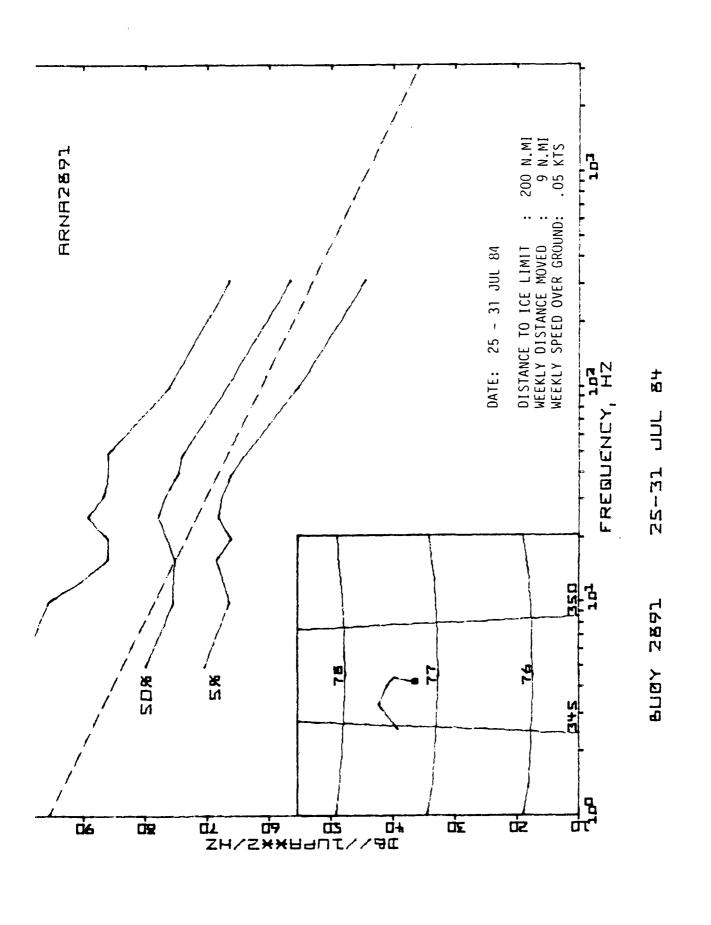
COTFUT IN FILE ARNAZ891

DISPLACEMENT (N. MI.): 49.651 NORTH: -15.481 EAST: 47.176 DIRECTION (TRUE): 108.170

THE NUMBER OF DATA SAMPLES IS 56

	Z	i) i)	99	56	516	90	56	99	35	36	99	\$9. 10.	
	MAX	102.4	0.46	92.0	87.3	91.9	89.2	87.4	86.7	83.6	79.4	71.7	
	756	97.2	86.1	35.2	0.58	83.9	86.3	85.7	84.8	84.7	78.3	69.4	
	20%	88.4	83.6	32.5	83.1	35.1	86.38	34.7	84.8	34.0	77.6	63.5	
	75%	84.3	77.6	30.0	79.8	81.3	82.6	82.9	60 60 60	81.8	73.4	64.2	
EDI AN	202	80.6	74.7	76.4	76.5	78.2	78.4	78.7	78.7	73.7	69.3	58.2	
Σ	797	76.4	70.5	73.9	73.8	75.3	76.5	76.2	75.5	74.8	67.4	54.9	
	10%	74.5	67.3	8.69	72.0	72.1	74.3	72.6	72.7	72.6	64.1	51.4	
	22	73.9	66.4	69.8	71.0	71.1	72.3	70.3	68.6	70.6	59.6	47.6	
	MIR	71.4	64.5	67.2	67.8	70.5	70.5	70.1	66.1	66.0	52.1	43.4	
STD	DEV	6.9	6.1		4.5	4.7	4.4	4.4	4.9	4.3	5.6	6.5	
	AVG	დ. ე	75.1	76.8	77.3	73.6	79.4	79.2	78.7	78.3	70.3	58.7	
FREQUENCY	ZH	o.n	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





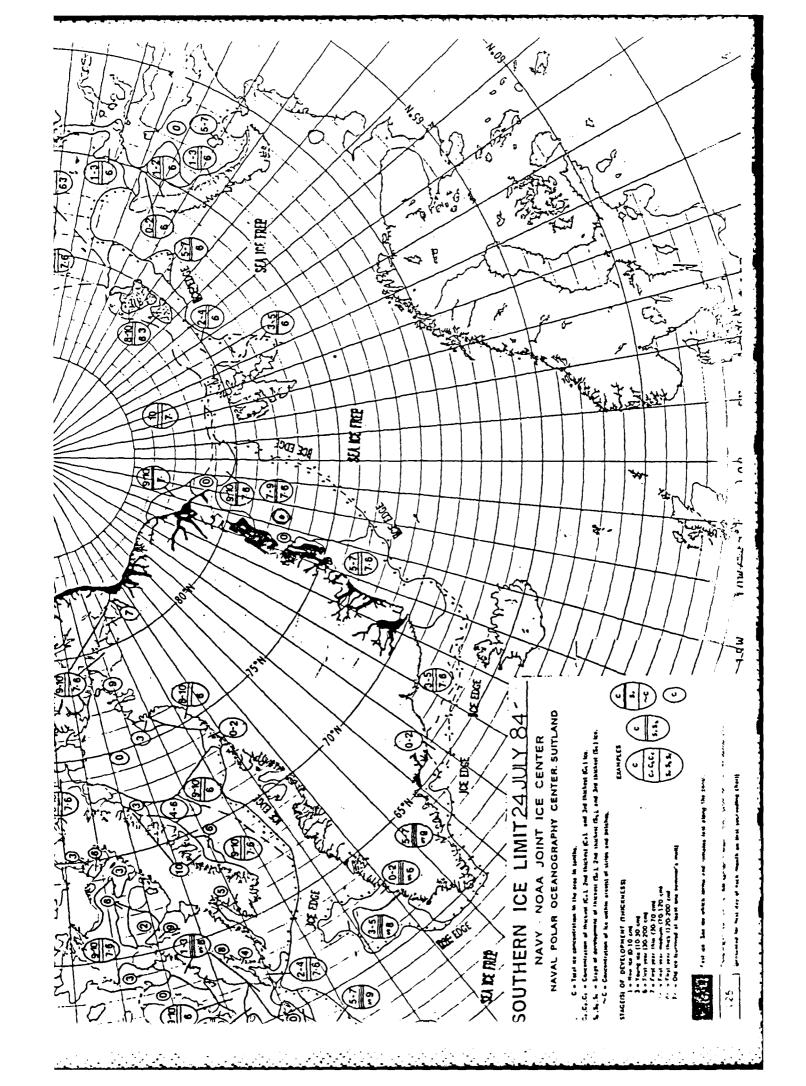
NONTH: 25-31 JUL 84 BUDY: 2891

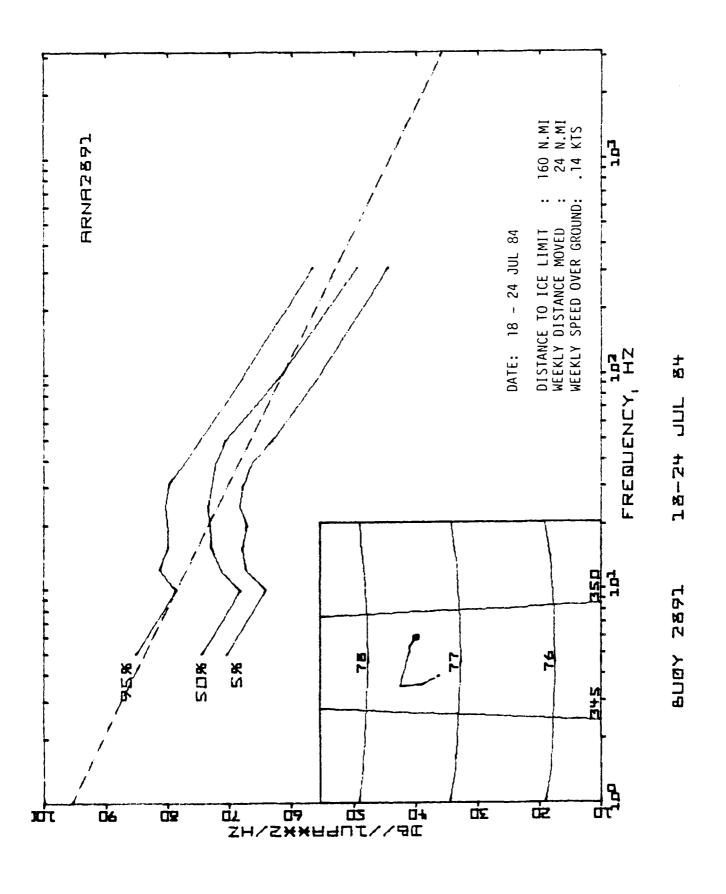
CUITFUL IN FILE ARNAZS91

-8,368 -2.879 EAST: 8.849 NORTH: DISFLACEMENT (N. MI.): 8 DIRECTION (TRUE): 251.042

THE NUMBER OF DATA SAMPLES IS 56

	2	تا	: V	99	() (1)	√ 0	٧ نا	ر الا	9 9	ر اوا	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ď	•
	MAX	106.5	103.4	98.7	96.1	92.7	90,4	00 00 10	00.00	87.8	0.00	711.7	
	756	103.2	9.00	90.4	တ က တ	0.00	89.7	86.6	00 00 00	0 0 0	76.2	66.3)
	706	60	00 15 60	ണ ത	ഗ (%	82.6	00 00 00	82.0	82.9	80.0	73.4	43.4)
		-					80.3					_	
NATOE	20%	6.67	75.4	75.3	75.2	76.6	8.77	76.8	74.6	73.8	8.99	S. 35	
Σ	25%	75.2	71.5	71.4	72.0	73.0	72.3	72.1	70.2	68.8	6.83	946.9	
	10%	71.4	67.3	63.6	8.69	68.6	89.89	69.4	66.7	64.5	56.4	44.4	
	75	70.3	66.4	67.2	68.5	66.1	68.2	67.6	66.1	63.7	50.00 00.00	44.4	
	MIN	69.8	64.5	64.4	66.0	64.5	65.1	66.6	61.7	61.2	52.1	42.8	
STD	DEV	Ģ.	©. 4	7.2	6.5	0.0	6.3	5.7	6.4	ه. ت	7.4	7.9	
	AVG	0.75	76.6	76.2	76.4	26.8	77.5	76.7	75.3	73.6	65.7	54.6	
FREQUENCY	ZH	့ ဂ	10.0	12.5	16.0	20.0	25.0	S1.0	40.0	50.0	100.0	315.0	STOP





MONTH: 18-24 JUL 84 BUDY: 2891

CUIFUL IN FILE ARNAZ391

DISFLACEMENT (N. MI.): 24.030 NORTH: -13.740 EAST: -19.714 DIRECTION (TRUE): 235.152

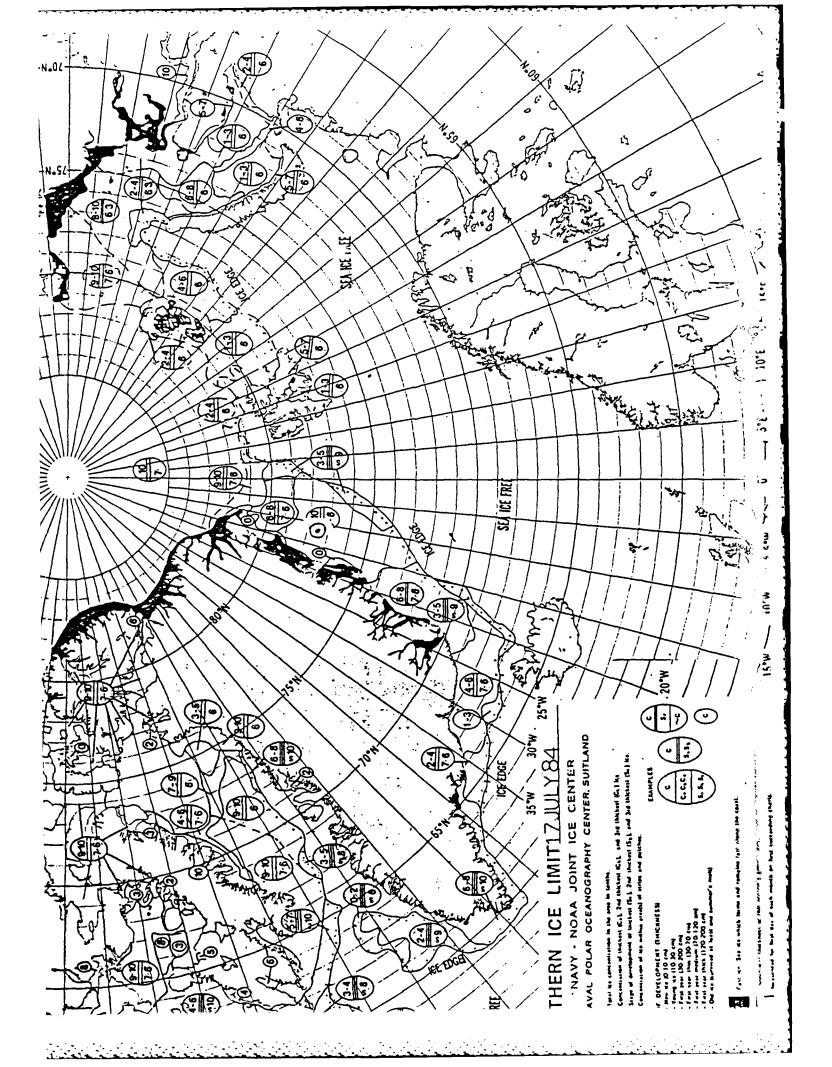
THE NUMBER OF DATA SAMPLES IS 54

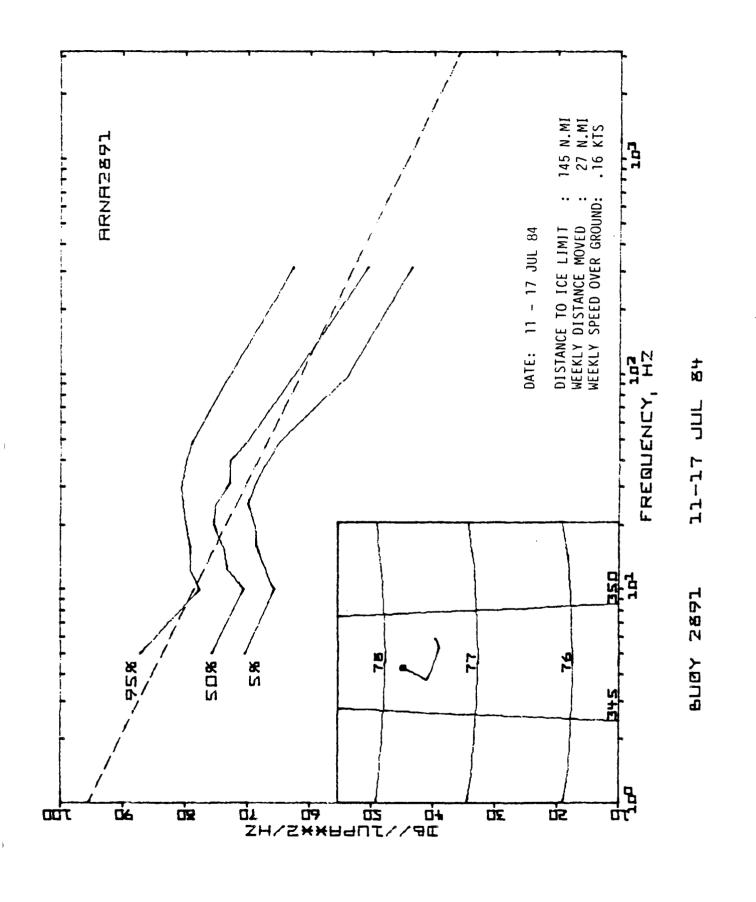
FREQUENCY		STD				Σ	YED! AN					
AVG				2%	10%	25%		75%	20%	7 26		Z
				70.3	70.3	72.3	•	77.4	SO. A	89°.	-	្រ ហ
	1			63.9	65.3	6.6.4	-	71.5	74.0	78.5		រ មា
	65			67.2	6.73	2.69		73.2	78.4	∞00		ហ ព
	٠.			87.8	67.8	69.8	•	75.9	79.0	79.8		99
	Ŋ			67.0	62.6	70.5		74.6	77.1	79.9		Ç IO
25.0 74	Ġ	0. 0.	67.3	68.2	69.1	71.8	73.4	76.5	79.4	80.0	84.4	ti? ti?
	Ci.			67.6	68,5 5	70.1		74.6	77.5	79.7		U.
	0			66.1	66.1	68.6	•	74.6	76.2	76.9		54
	9.6			62.8	66.0	67.8		73.2	73.8	74.8		99
	بب د دا			0. 10.	56.4	59.6	•	60°	66.2	6.7.4		90
	00			44.4	45.3	47.6	-	53.6	4.00	56.5		្រ

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か30mm - 10mm - 40mm





MONTH: 11-17 JUL 84 RUOY: 2891

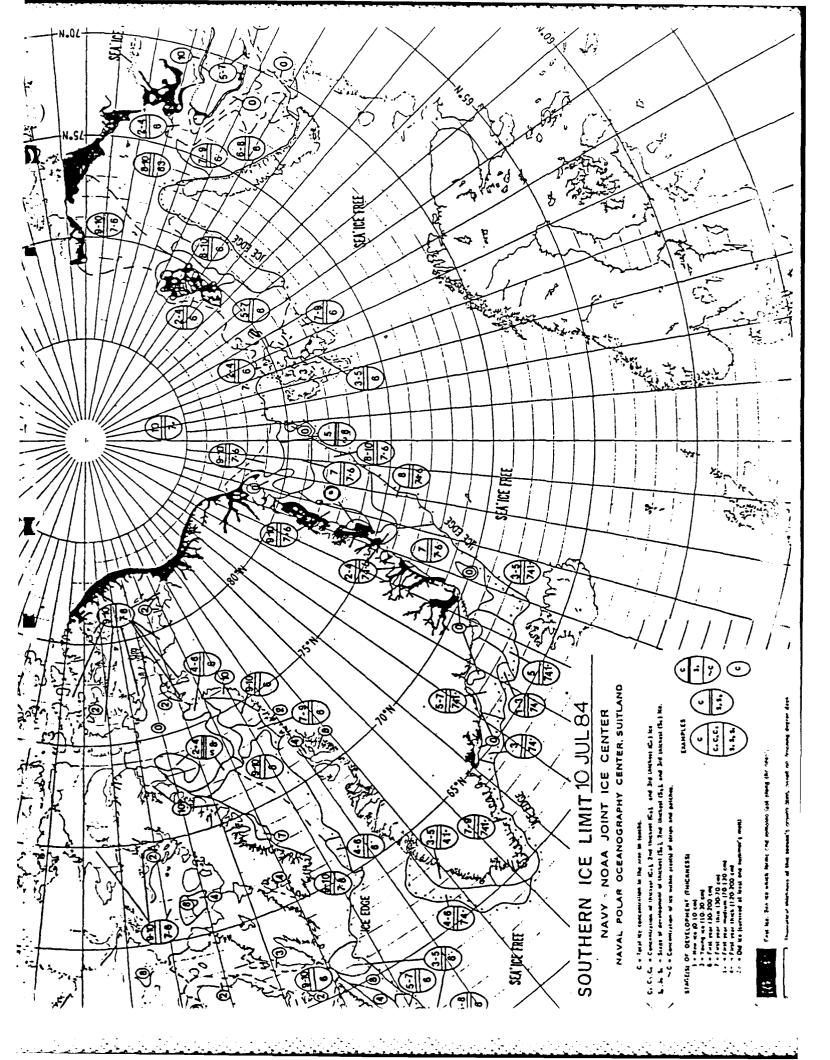
CUTPUT IN FILE ARNA2891

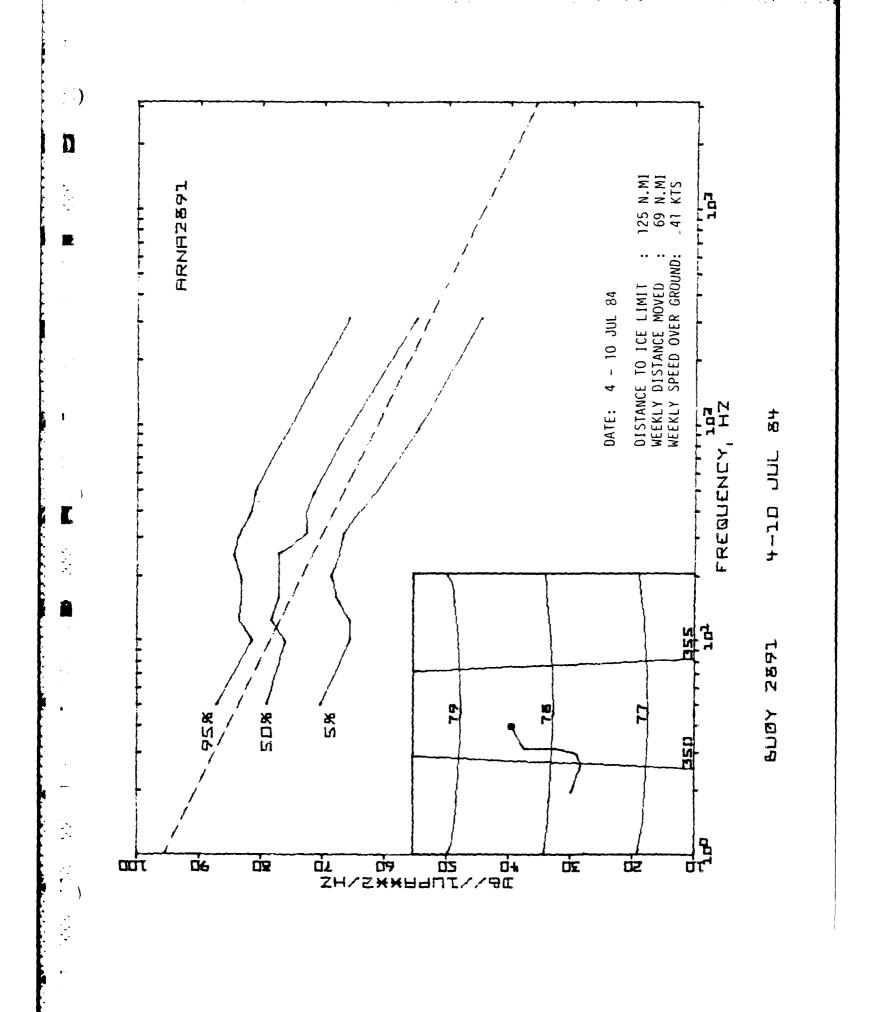
DISPLACEMENT (N. MI.): 27.116 NORTH: -19.440 EAST: 18.904 DIRECTION (TRUE): 135.810

THE NUMBER OF DATA SAMPLES IS 55

	2	2 0	: U	0 t) b) s 5 <u>u</u>	† 5 D U	i D) V	7 K	1 U) i	t S
	MOY	V	† . † 0	6 t		6 C	v v 0 0	0 4,0	្រ ្	9 0		. 0	7
	6:40	0 / 0	7 - 7	0.0	¥ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	N (0 N (0 N (0	0.00	0.00	70.7	0.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	?
	,00	1000 0000	1 7 7 7	70,7	1007	70.7	- 0 - 0	70.7	78.7	77.3	20.0		
	75%	70 07	20.00	7. 4	1 7/	77	4.77	75.4		73.3	47.4	0.40	
EDIAN	202	75.0	70 5	0.07	0 0		7.00 1	7.0	72.7	69.7	4.7.4	40.4	•
Ξ	25%	73.1	48.7	71.4	72.0	72.1	72.3	70.8	70.2	67.2	56.4	. 6. . 0.	
	10%	70.3	10. 10.	6.69	0.09	70.5	70.5	49.4	66.7	66.0	54.2	44.4	•
	%	70.3	85.5	67.2	0.9 0.9	63.6	69.8	600	66.7	64.3	ന ന	43,4	
	ΣIZ	67.8	64.5	66.0	65.0	66.1	69.1	67.6	64.2	62.8	53. S	43.4	
STD	DEV	С. С.	4.2	5.7	ဟ က	9.6	დ დ	3.6	4.1	ক	6.4	6.2	
	_	-	-	73.7				•	•	•	•		
FREQUENCY	HZ	0,0	10.0	12.5	16.0	20.0	25.0	31.0	40.0	50.0	100.0	315.0	STOP

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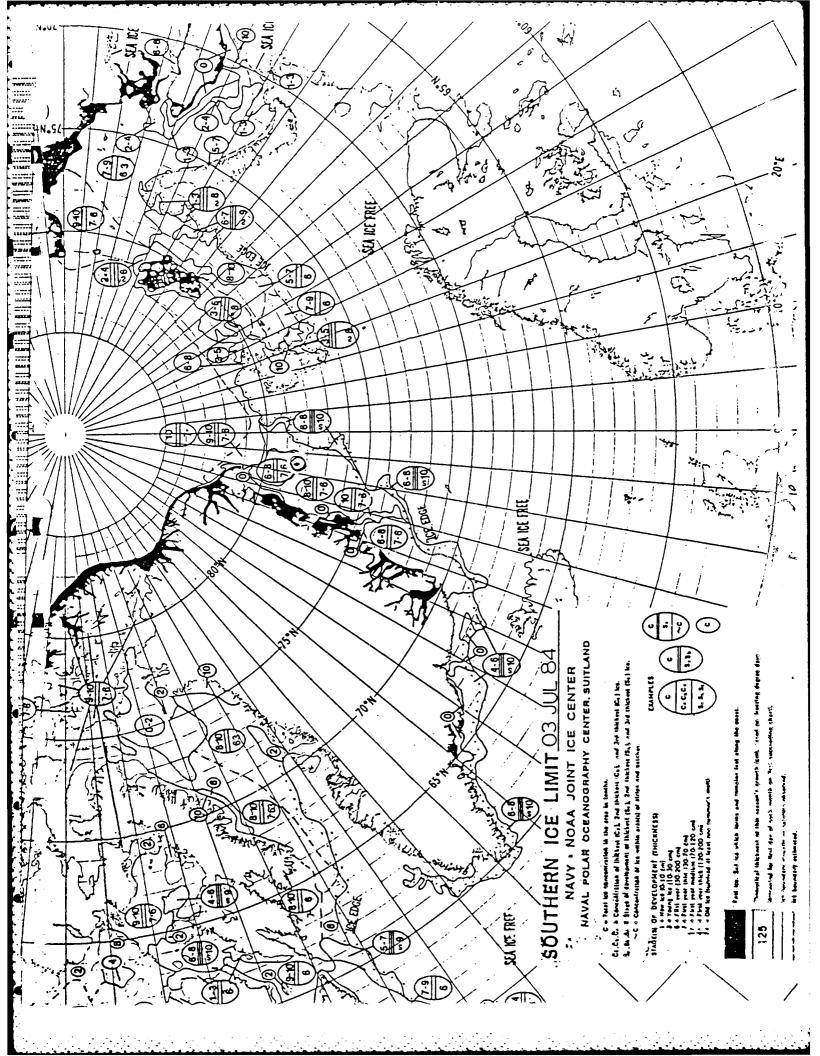
MONTH: 4-10 JUL 84 RU0Y: 2891

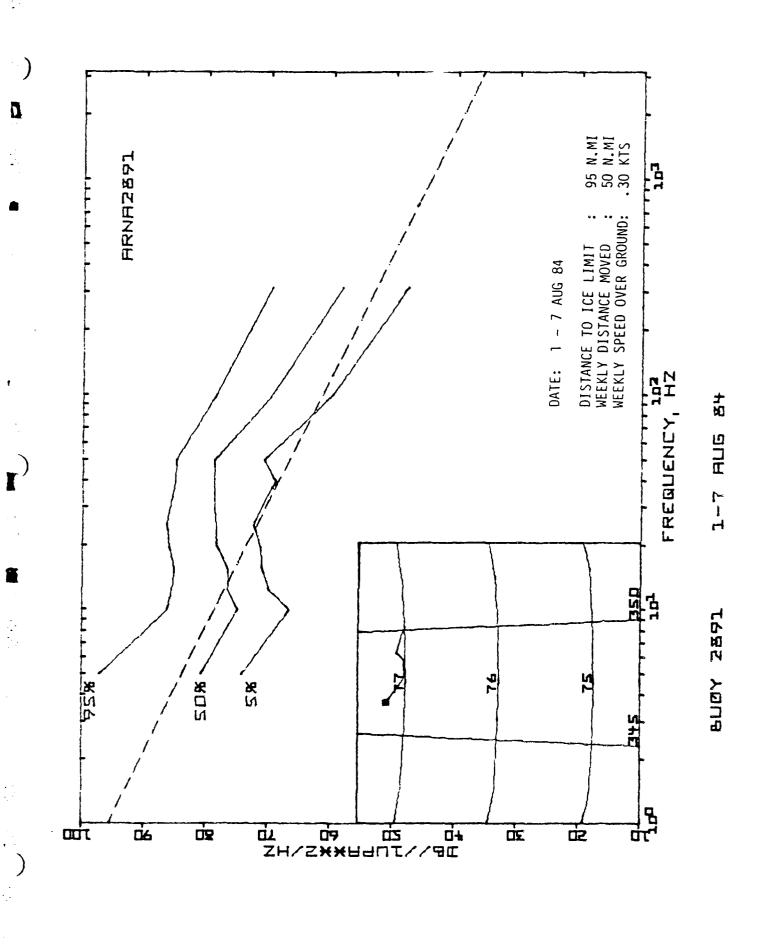
OUTPUT IN FILE ARNA2891

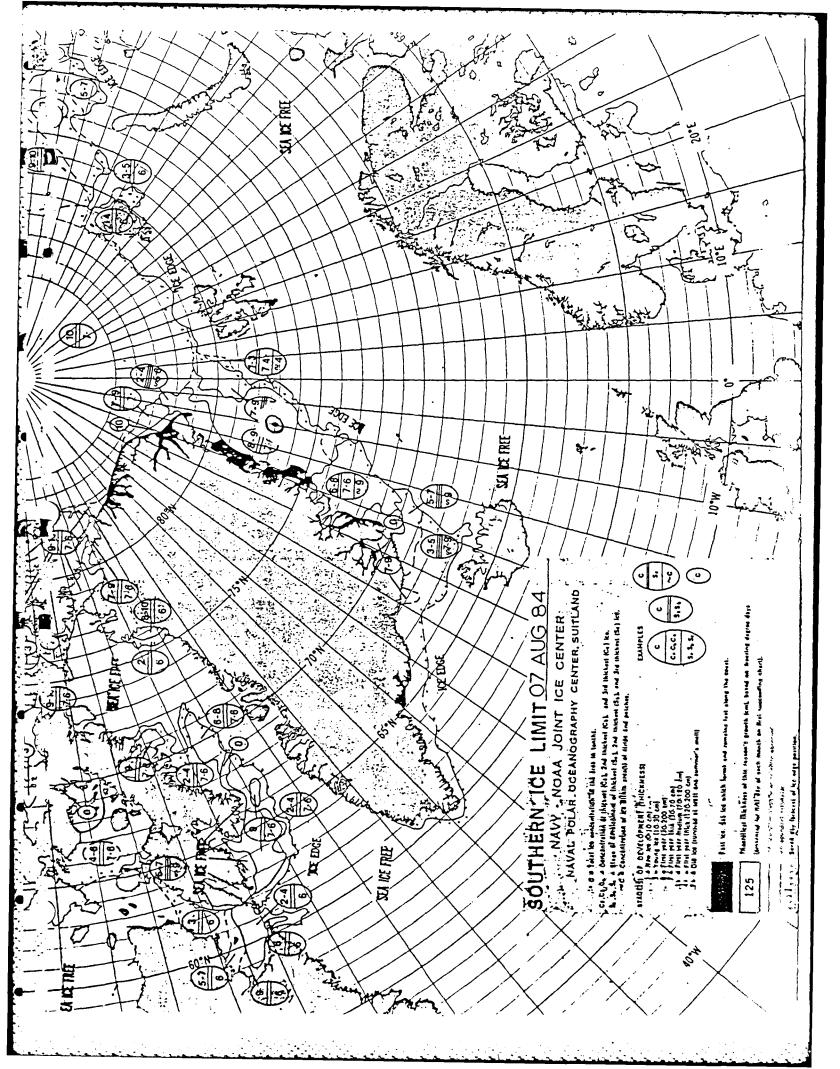
DISPLACEMENT (N. MI.): 68.986 NORTH: -39.060 EAST: -56.863 DIRECTION (TRUE): 235.542

THE NUMBER OF DATA SAMPLES IS 52

FREQUENCY		STE				Σ	EDIAN					
ZH	AVG	DEV	MIN	% 10:	10%	25%	202		206	756	MAX	z
o ហ	79.0	រា ភេ	67.1	70.3	71.4	74.5	79.1		 €.00	87.2	92.6	10 64
10.0	75.0	S.2	62.7	65.5	65.5	72.4	76.0	78.5	80.7	81.4	83.6	22
12.5	77.7	5.1	65.4	65,4	89.89	75.3	78.4		© ⊗ 00	(C)	87.3	(N) (D)
16.0	77.2	4.4	67.8	67.8	71.0	74.5	77.0	•	い べ の	- - - -	0.80	80
20.0	76.8	4.7	66.1	63.6	71.1	73.9	77.1	•	<. ∞ ∞	(% (%) (%)	89.2	Oi IO
25.0	76.6	0 10	66.3	67.3	68.2	73.4	77.2	•	<u>8</u>	84.4	98.0	(N) (D)
31.5	74.1	٠. س	64.8	66.6	67.6	70.1	72.6	•	30.6	က ကို ()	85.7	(N (C)
40.0	73.1	5.4	60.1	64.2	60 10 10	69.5	72.7		78.7	81. B	86.7	(N
50.0	71.3	5.7	0.09	61.2	63.7	67.8	71.3	•	78.7	80.9	84,7	(Ni LD)
100.0	64.6	6.0	60 60 80	54.2	54.8	0.00 0.00	65.6	•	73,4	75.3	79.4	(N
315.0	53.3	7.0	43.4	44.4	44.4	46.9	54.9		61.5	65.7	70.3	20
STOP												







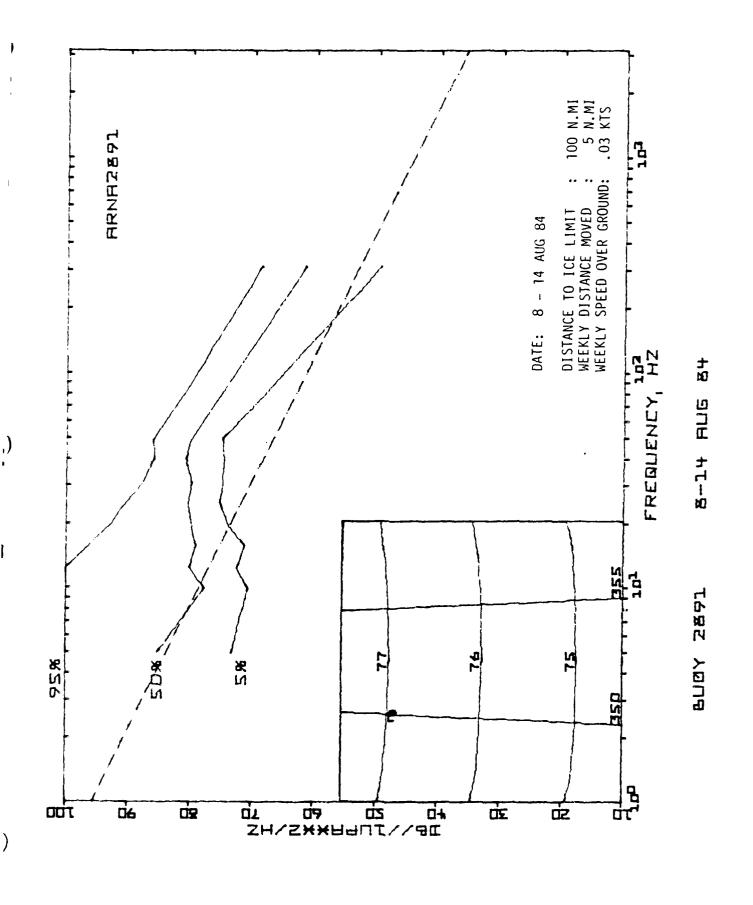
MONTH: 8-14 AUG 84 RUDY: 2891

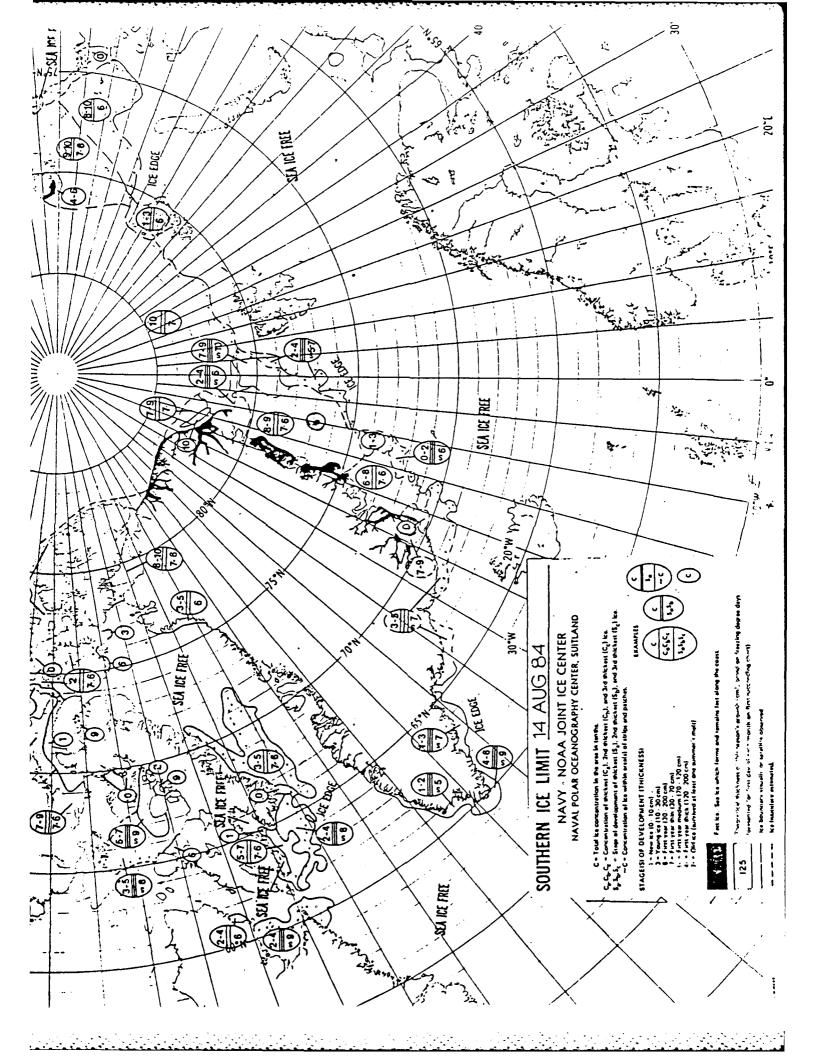
OUTPUT IN FILE ARNA2891

DISPLACEMENT (N. MI.): 4.932 NORTH: -4.020 EAST: DIRECTION (TRUE): 215.422

THE NUMBER OF DATA SAMPLES IS 56

	z	90	2 2	20	28	5%	56	90	56	92	96	99	
	MAX	106.5	104.8	101.5	99.3	2.96	93.2	90.7	91.8	39.4	84.3	75.4	
	75%	106.5	102.6	100.0	96.1	92.7	90.4	87,4	တ ကြွ လ	93.9	% % %	68.5	
	20%	106.5	101.6	97.3	93.3	91.1	87.9	85.7	84.8	83.4	78.3	6.99	
			က ကွ										
MEDIAN	50%	33.1	77.6	80.0	79.0	6.64	80.3	79.7	80.7	79.8	72.8	61.5	
	25%	78.3	74.7	75.9	75.2	77.1	77.8	77.5	78.2	78.0	68.4	56.5	
	10%	75.8	73.3	73.9	72.9	73.9	75.9	75.4	76.2	76.6	66.8	52.2	
STD	22%	73.1	70.5	72.3	71.0	73.9	75.1	74.6	74.6	74.3	64.9	49.4	
	ZIL	72.3	69.6	71.4	69.8	71.1	69.8	72.6	72.7	73.2	62.4	44.4	
	ΩEV	10.3	6.6	დ დ	7.5	6,0	φ. ω	4.1	დ ო	ო ო	4.5	6.4	
	AVG	87.4	81.8	81.8	80.7	81.3	81.2	80.6	80.8	80.2	72.4	60.5	
FREQUENCY	ZH	0.0	10.0	12.5	16.0	20.0	25.0	31.5	40.0	50.0	100.0	315.0	STOP





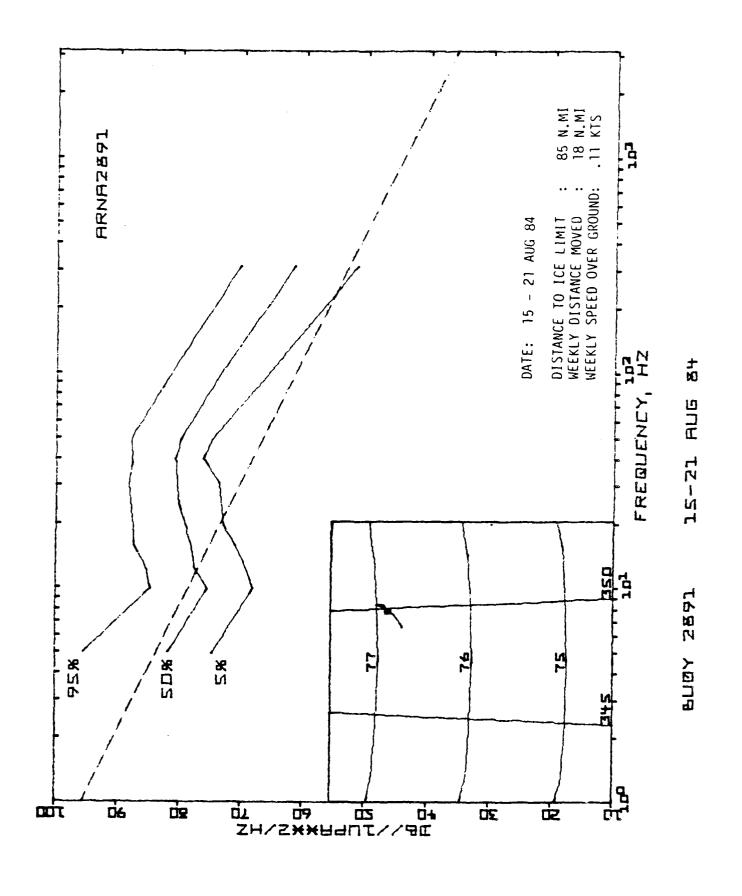
MONTH: 15-21 AUG 84 BUOY: 2891

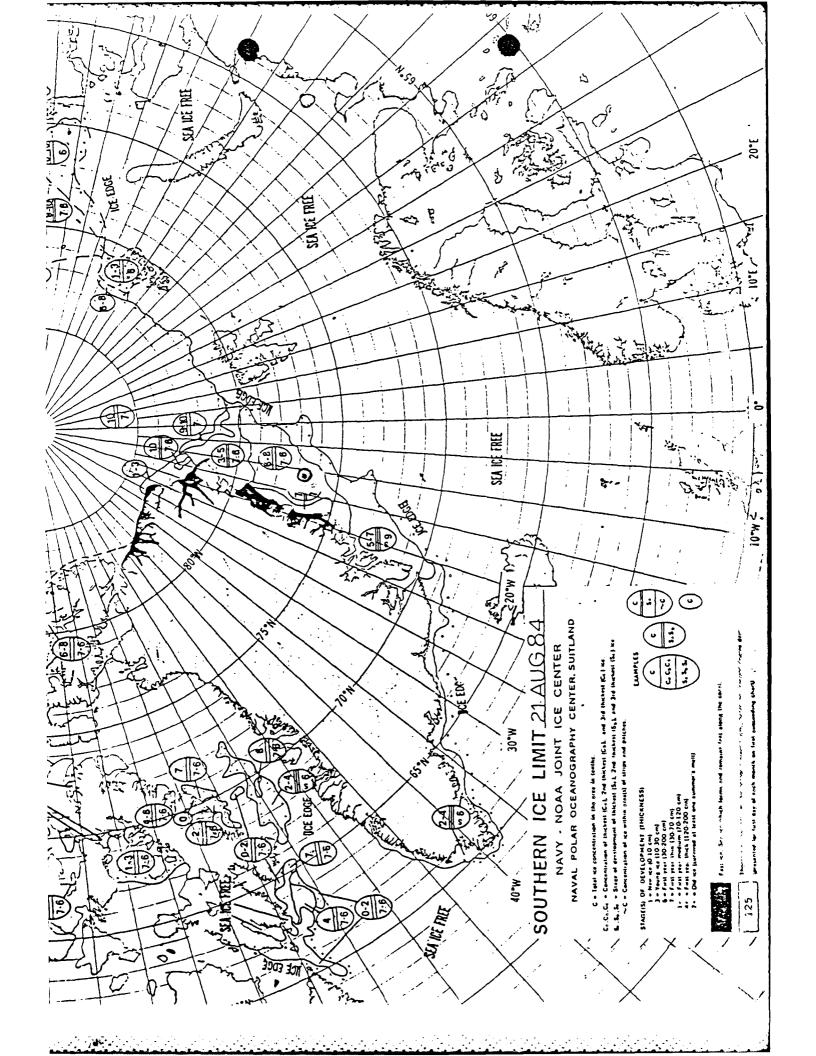
CUTPUT IN FILE ARNASS91

DISPLACEMENT (N. MI.): 17.594 NORTH: -11.640 EAST: -13.193 DIRECTION (TRUE): 228.604

THE NUMBER OF DATA SAMPLES IS 54

FREQUENCY		STD				Σ	EDIAN					
H7.	AVG	DEV	NIE	% 5	10%	25%		75%		750		Z
០ . ខ	00 (N) (D)		69.8	74.5	75.2	78.3		87.2		95.4	-	9 9
10.0	76.2		63.9	68.0	70.5	72.4	75.4	79.3	82.6	84.0	89.6	90
12.5	77.7		66.3	69.5	71.4	74.6		80.6		85.2		<u>ئ</u> .
16.0	78.3		67.8	71.0	72.0	75.2		80.6		87.3		95
20.0	79.3		70.5	73.0	75.3	77.1		8.18 8.18		87.4		u i
25.0	80°.		71.8	73.4	75.1	77.8		82.6		87.9		70
31.5	80.7		71.5	73.7	75.4	78.1		82.9		88.2		90
40.0	81.3		75.5	76.2	76.97	79.8		80.0		87.5		5.6
50.0	30.6		73.8	74.8	9.94,	78.0		82.6		87.8		(D)
100.0	73.5		62.4	65.6	68.4	70.9		74.4		81.4		99
315.0	61.9		43.3	51.4	53.6	00 00 00		66.3		70.3		90
STOP												





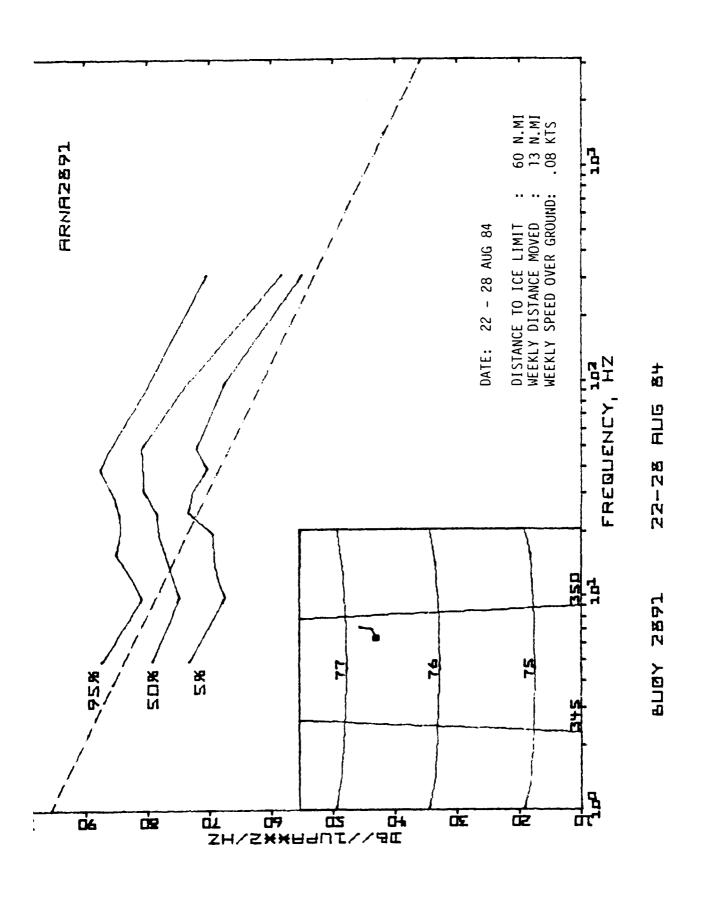
MONTH: 22-28 AUG 84 BUGY: 2891

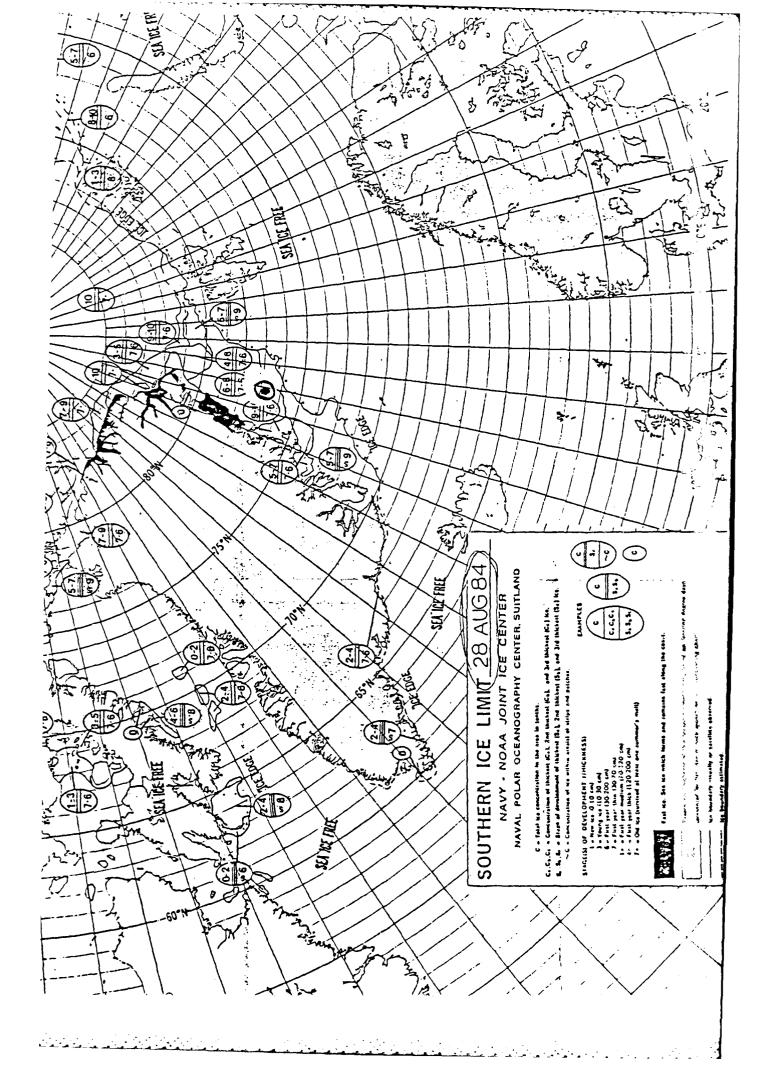
CUTPUT IN FILE ARNA2891

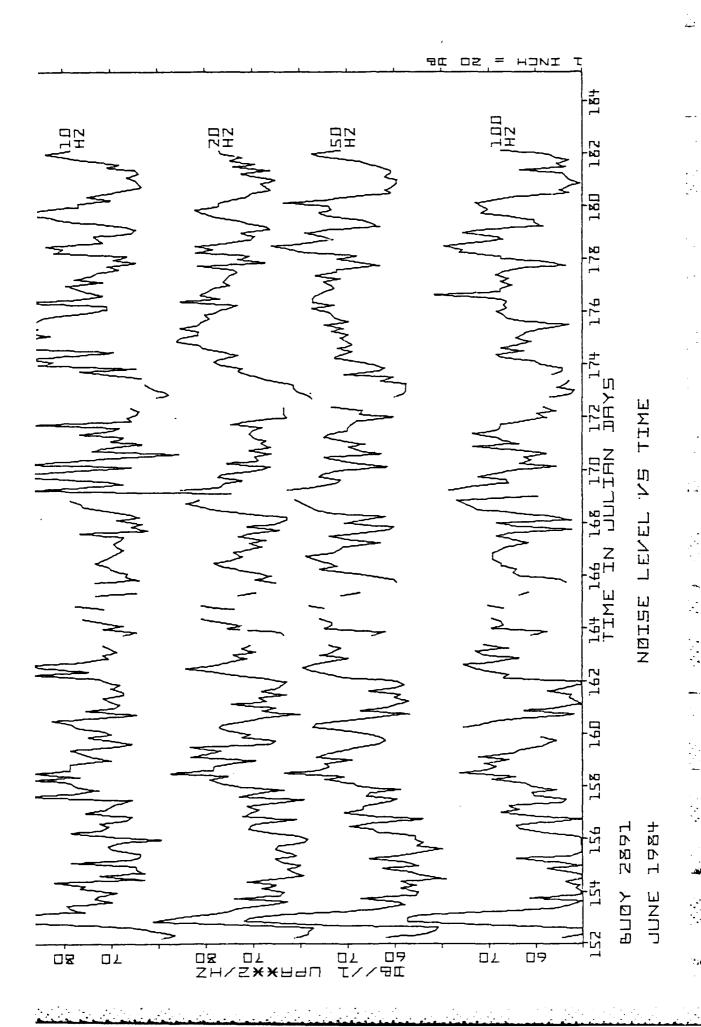
8.114 EAST 10.321 DISPLACEMENT (N. MI.): 13.128 NORTH: DIRECTION (TRUE): 38.164

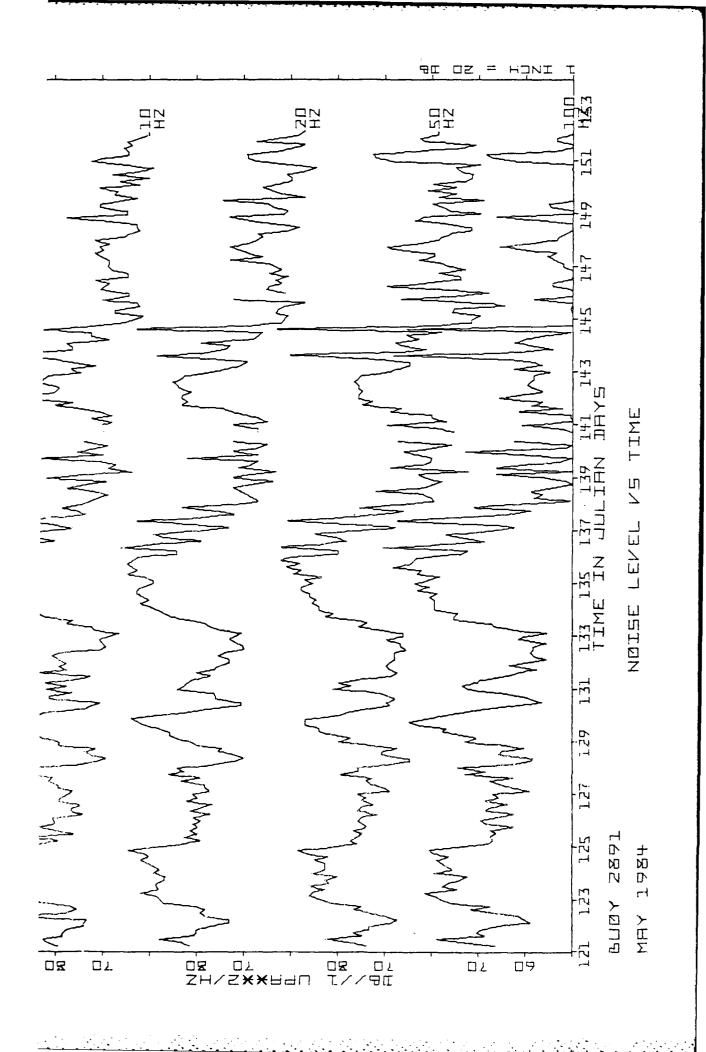
THE NUMBER OF DATA SAMPLES IS 26

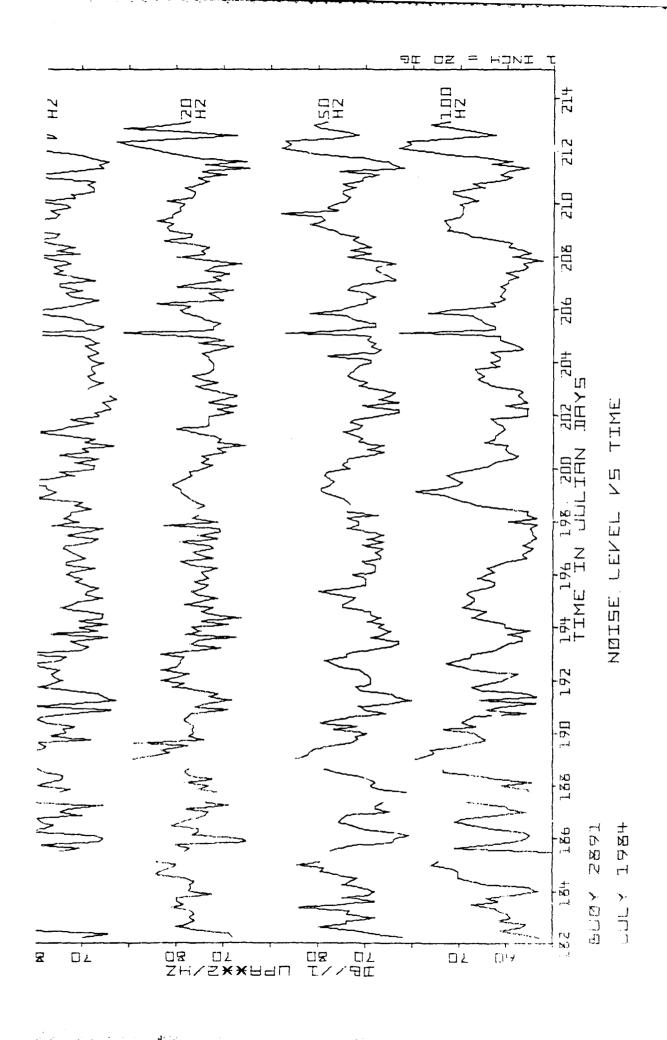
	z	26	26	26	26	25	2.6	2%	26	26	26	28	
	MAX	96.4	0.08	89°.	86.6	35.1	85.4	87.4	88 8	86.9	80°.	71.7	
STD MEDIAN	756	87.2	80.7	82.5	0 10 10	84.2	84.4	85.7	87.5	83.0	79.4	70.3	
	706	82.4	79.3	81.9	81.9	81.3	00° 00°	84.1	84.2	92.9	76.9	66.39	
				79.2									
	203	79.1	74.7	75.9	77.0	78.2	78.4	30.6	80.7	80.9	73.4	98° 2	
	25%	76.4	6.69	73.2	75.2	75.3	76.5	79.7	77.6	77.3	70.2	57.4	
	10%	74.5	67.3	69.2	72.0	73.0	74.3	75.4	75.5	74.8	67.4	36.5	
	25	73.1	67.3	68.6	69.2	69.3	73.4	72.6	70.2	72.0	67.4	54.9	
	Z Z Z	73.1	67.3	68.6	69.2	69.3	73.4	72.6	70.2	72.0	67.4	54.9	
	DEV	4 ©	o ភ	4.4	4.1	3.6	ტ ტ	က က	4.1	4.0	9.0 0	4.7	
	AVG	29.6	74.4	76.0	77.4	77.3	79.0	80.8	80.4	30.5	73.3	6.09	
FREQUENCY	HZ	ဝ. က	10.0	12.5	16.0	20.0	25.0	0.10 0.10	40.0	50.0	100.0	315.0	STOP



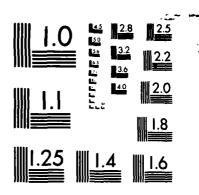




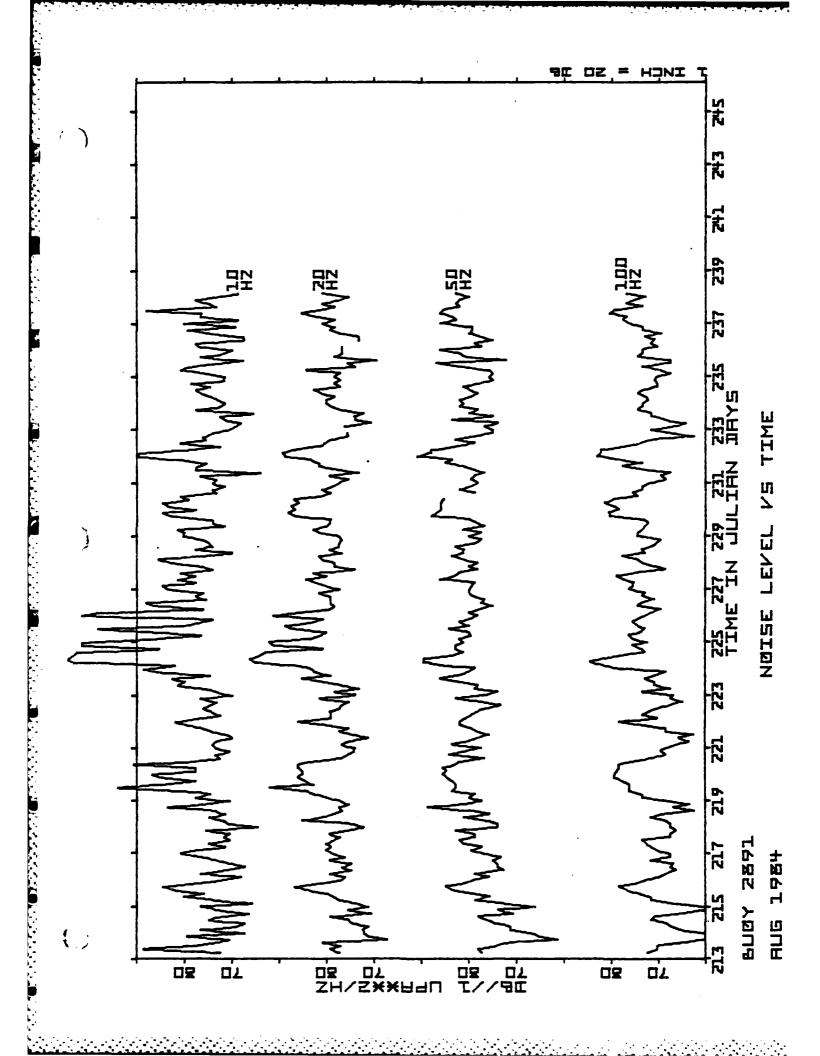




AD-R156 818 LONG TERM STATISTICAL MEASUREMENTS OF ENVIRONMENTAL 7/7 ACOUSTICS PARAMETERS I.. (U) POLAR RESEARCH LAB INC CARPINTERIA CA B M BUCK ET AL. 13 DEC 84 PRL-TR-53 UNCLASSIFIED N00014-84-C-0394 F/G 20/1 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BURFAU OF STANDARDS-1963-A



APPENDIX 9

Date Buoy I.D. 0622

Life in Reporting Area 2 (West Greenland Sea)

29 March 1977 - 3 July 1977

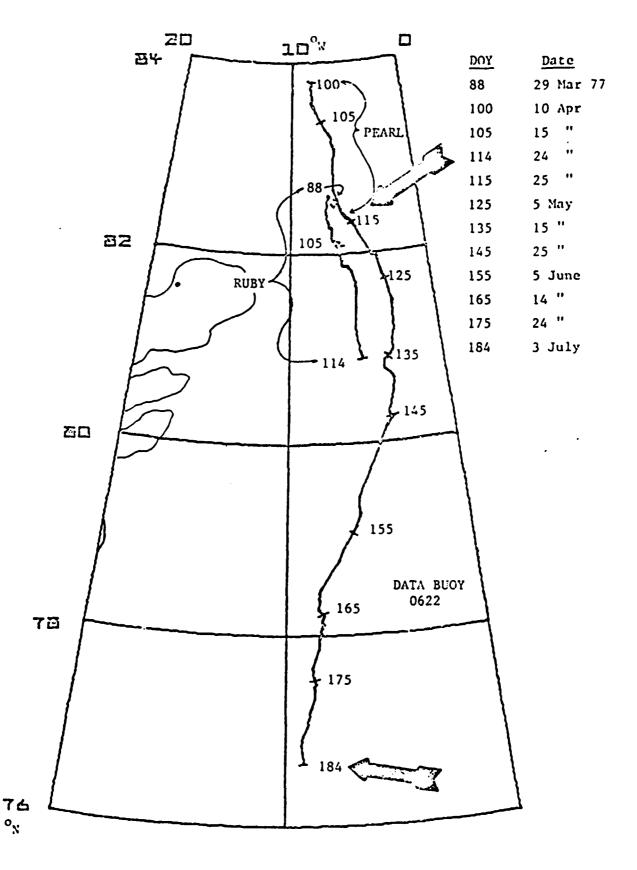
Type: ANRAMS (NIMBUS 6) (3.2 - 1000 Hz)

Ambient Noise Data from ANRAMS Data Buoy 0622

Total-Life (DOY 115-184, 24 Apr - 3 Jul, 1977)

Track, Histograms and Statistical Data

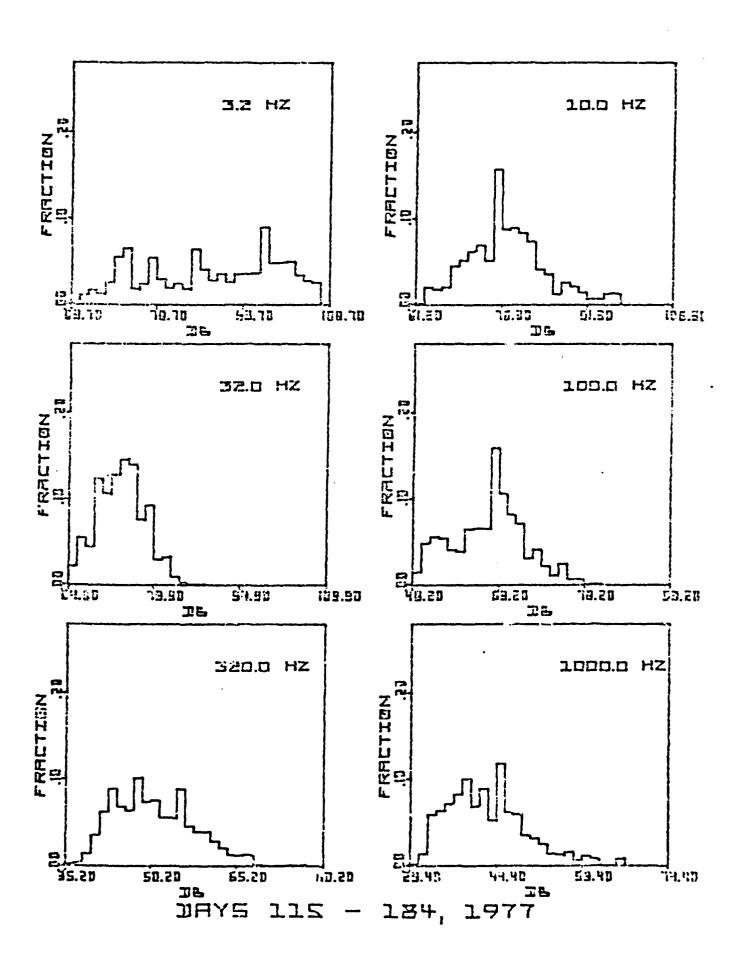
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FLOS DRIFT, DAYS BE-184



<u>,</u>

Statistical Data on Total Buoy Life (DOY 115-184)

FREQUENCY= 3.2 HZ NUMBER OF SAMPLES= 697

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MIN 5% 10% 25% 50% 75% 90% 95% MAX 63.7 69.7 71.2 77.2 87.7 96.7 101.2 102.7 105.7

AVERAGE= 97.12 STANDARD DEVIATION= 11.49

FREQUENCY= 10.0 HZ NUMBER OF SAMPLES= 697

MIN 5% 10% 25% 50% 75% 90% 95% MAX 61.3 65.8 67.3 71.3 76.3 80.9 85.3 88.3 95.8

AVERAGE= 76.38 STANDARD DEVIATION= 6.75

FREQUENCY= 33.0 HZ NUMBER OF SAMPLES= 697

MIN 5% 10% 25% 50% 75% 90% 95% MAX 64.9 66.4 67.9 70.9 73.9 75.4 78.4 79.9 87.4

AVERAGE= 73.35 STANDARD DEVIATION= 4.11

FREQUENCY= 100.0 HZ NUMBER OF SAMPLES= 697

MIN 5% 10% 25% 50% 75% 90% 95% MAX 48.2 49.7 51.2 55.7 61.7 64.7 69.2 70.7 79.7

AVERAGE= 60.73 STANDARD DEVIATION= 6.32

FREQUENCY= 320.0 HZ NUMBER OF SAMPLES= 697

MIN 5% 10% 25% 50% 75% 90% 95% MAX 35.2 39.7 41.2 44.2 48.7 54.7 59.2 62.2 75.7

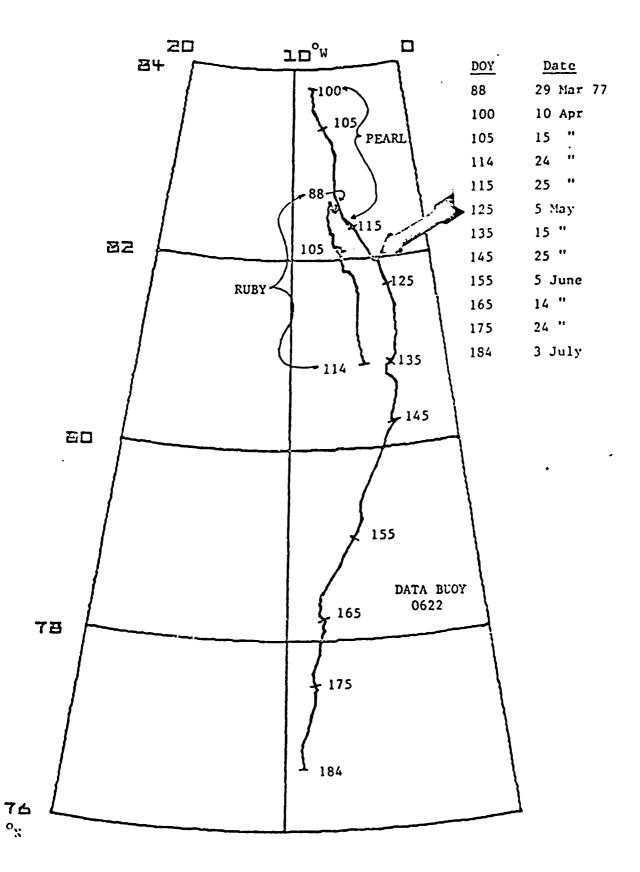
AVERAGE= 49.95 STANDARD DEVIATION= 6.92

FREQUENCY= 1000.0 HZ NUMBER OF SAMPLES= 697

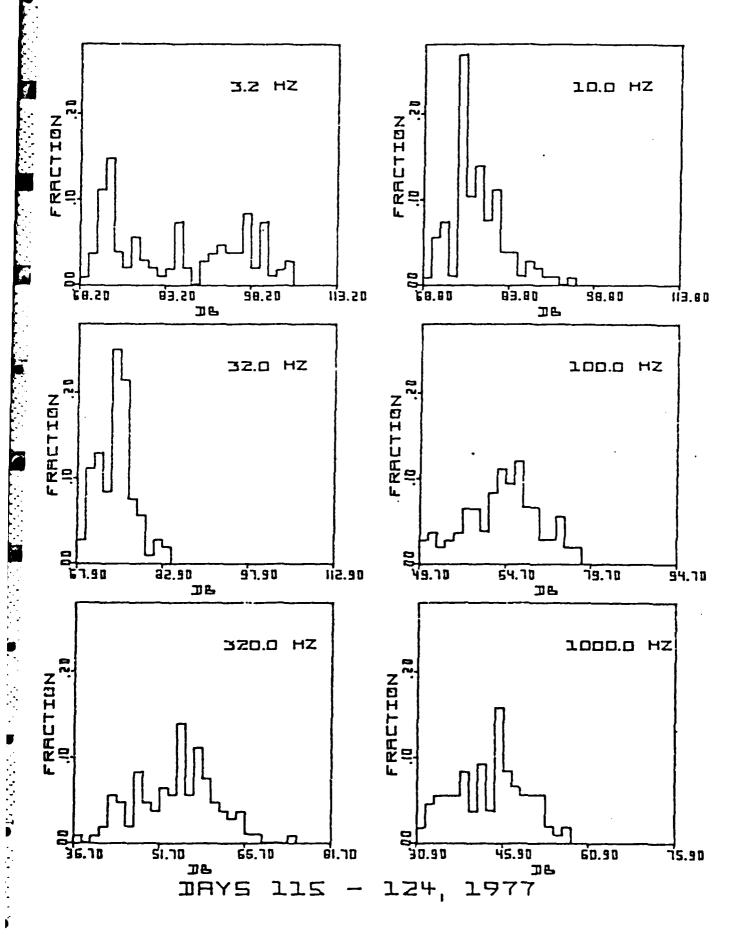
MIN 5% 10% 25% 50% 75% 90% 95% MAX 29.4 32.4 33.9 36.9 41.4 45.9 50.4 54.9 65.4

AVERAGE= 42.07 STANDARD DEVIATION= 6.88 DOY 115-124 (25 Apr - 4 May, 1977)

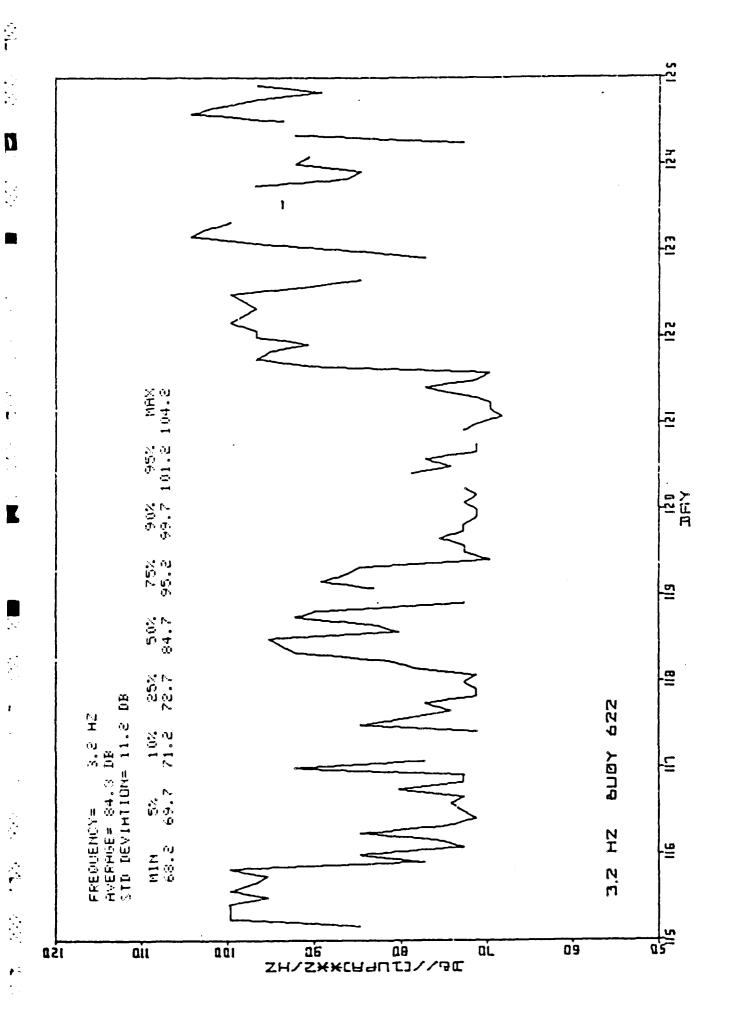
Time Histories, Histograms and Statistical Data

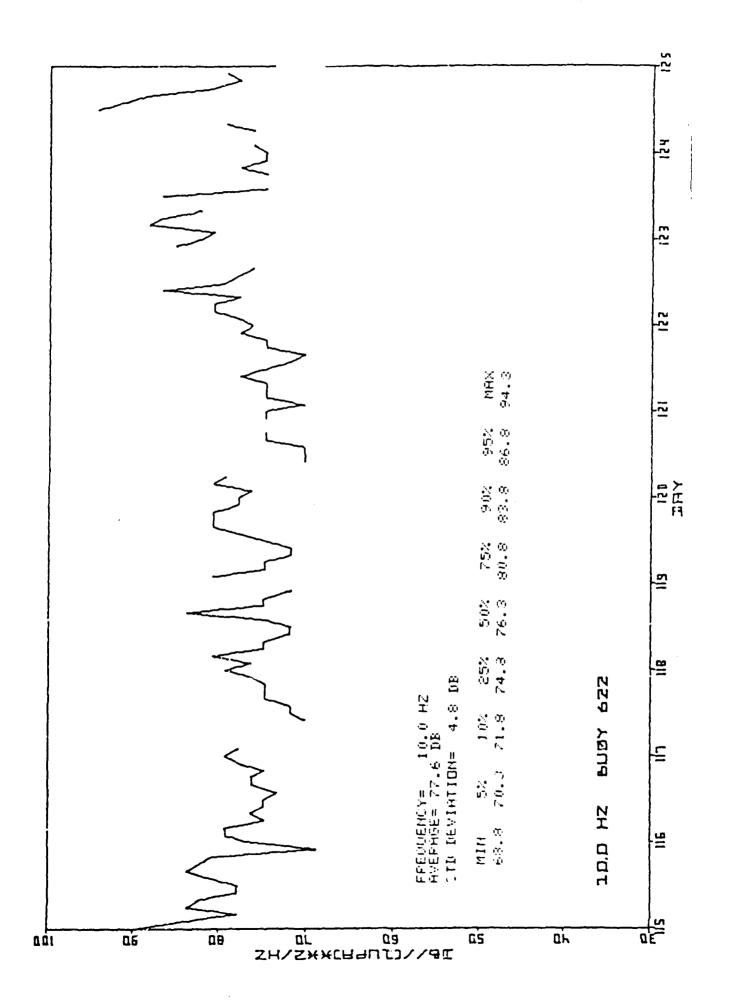


FLUE DRIFT, DAYS 115 - 125



Total State





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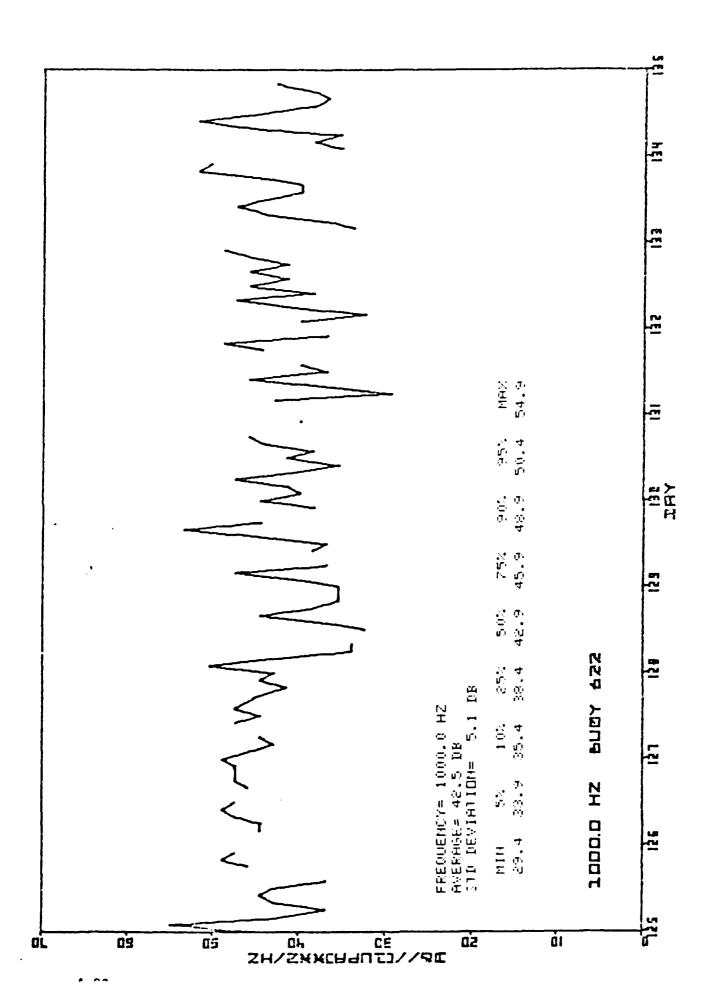
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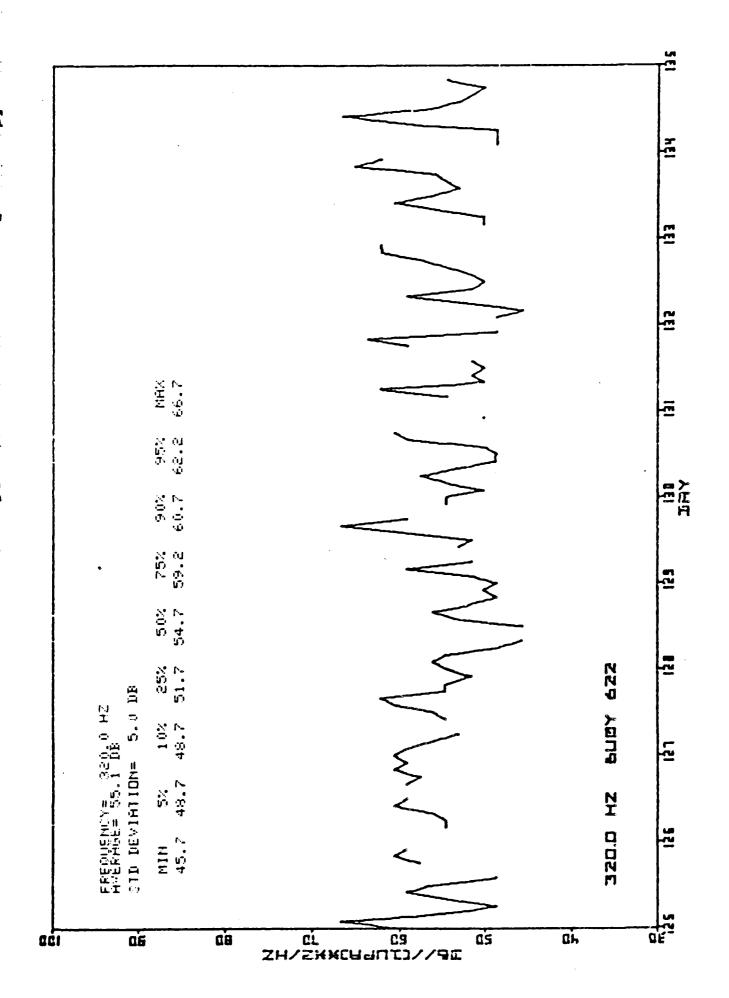
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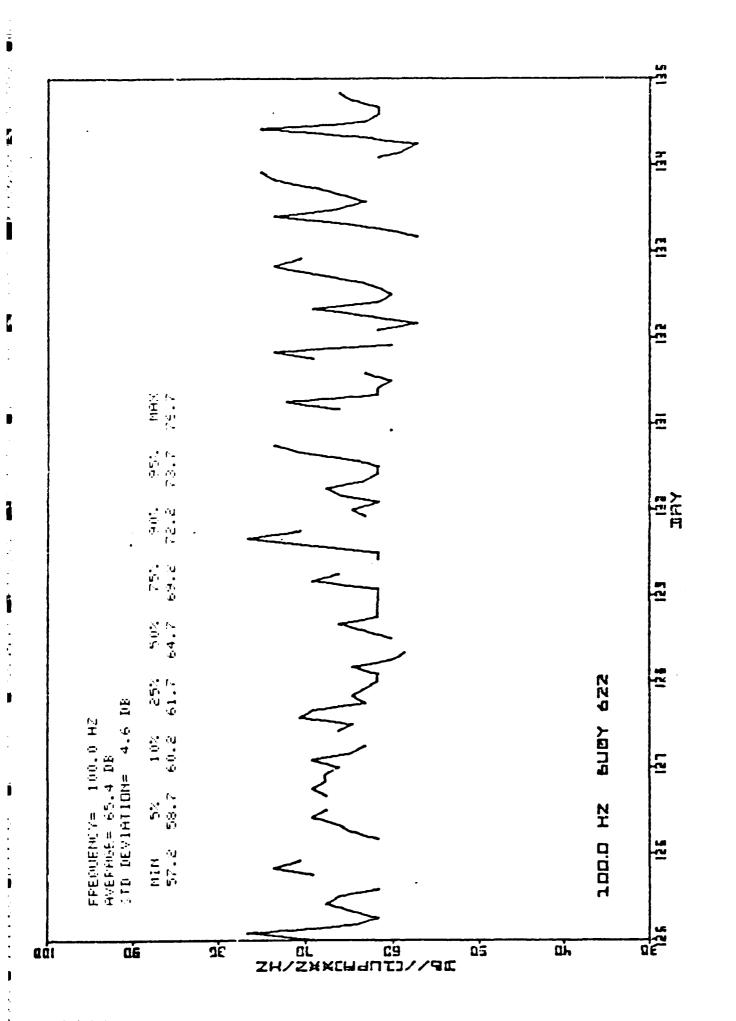
...

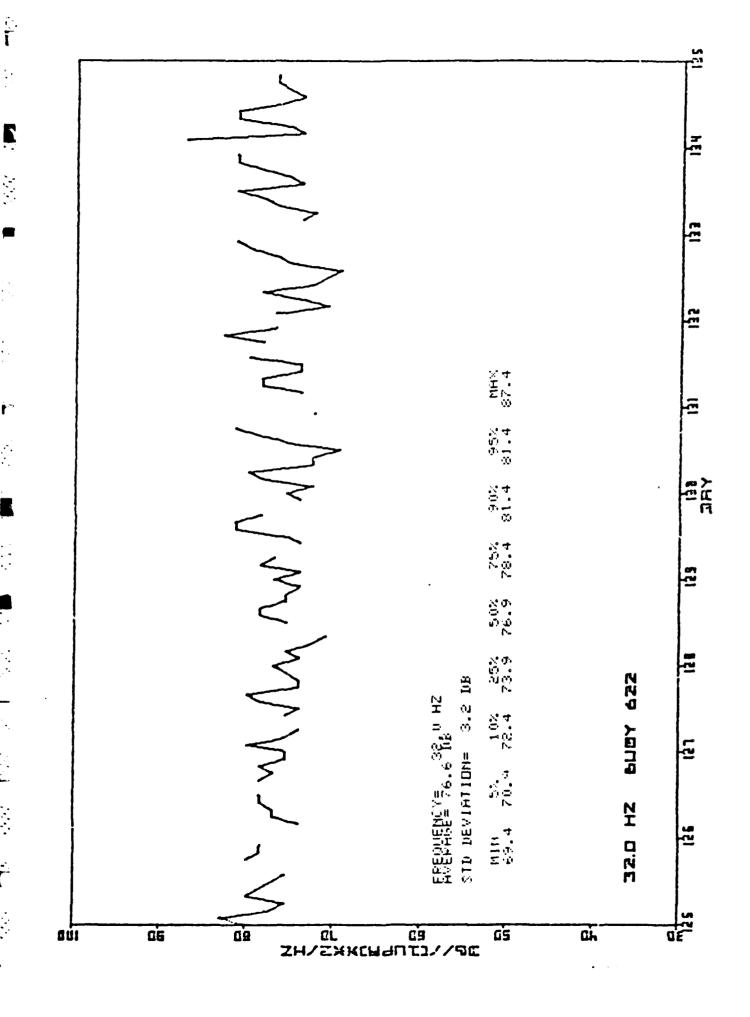
DOY 135-144 (15 May - 24 May, 1977)

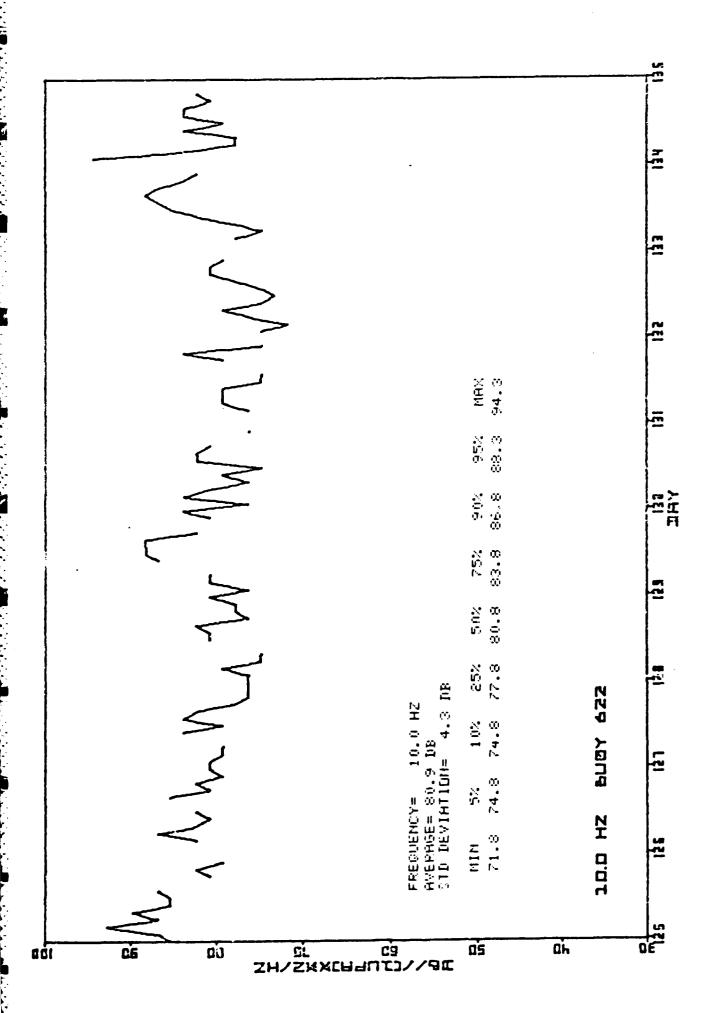
Time Histories, Histograms and Statistical Data

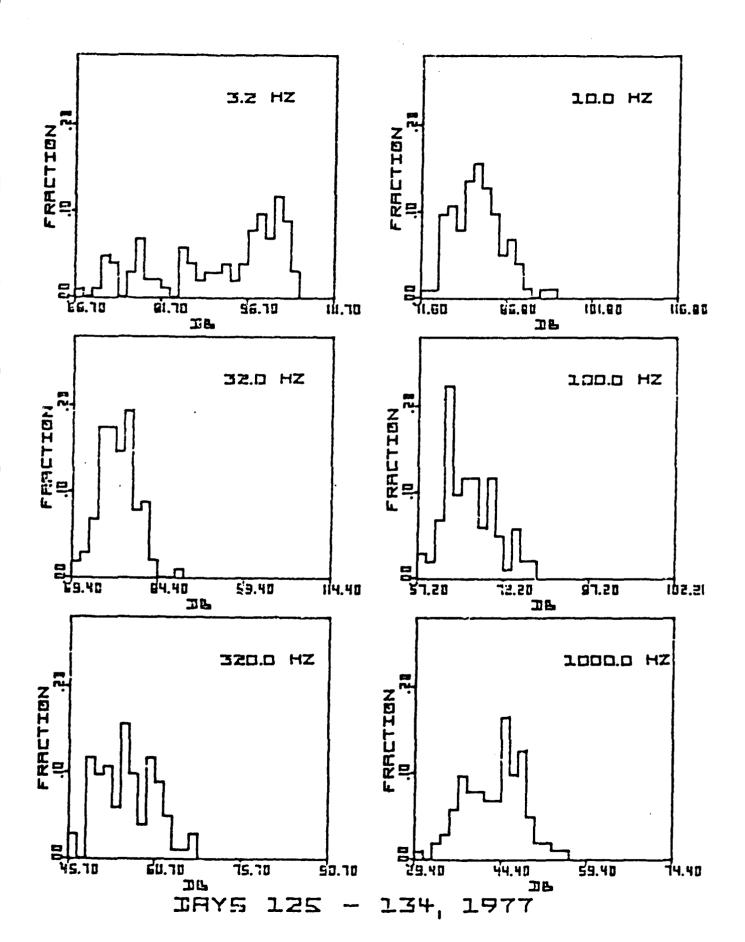




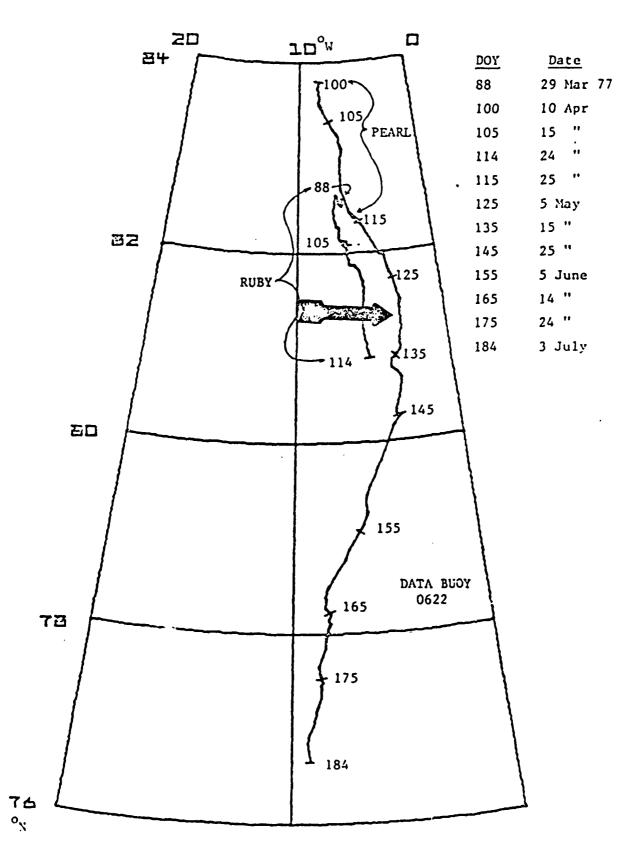








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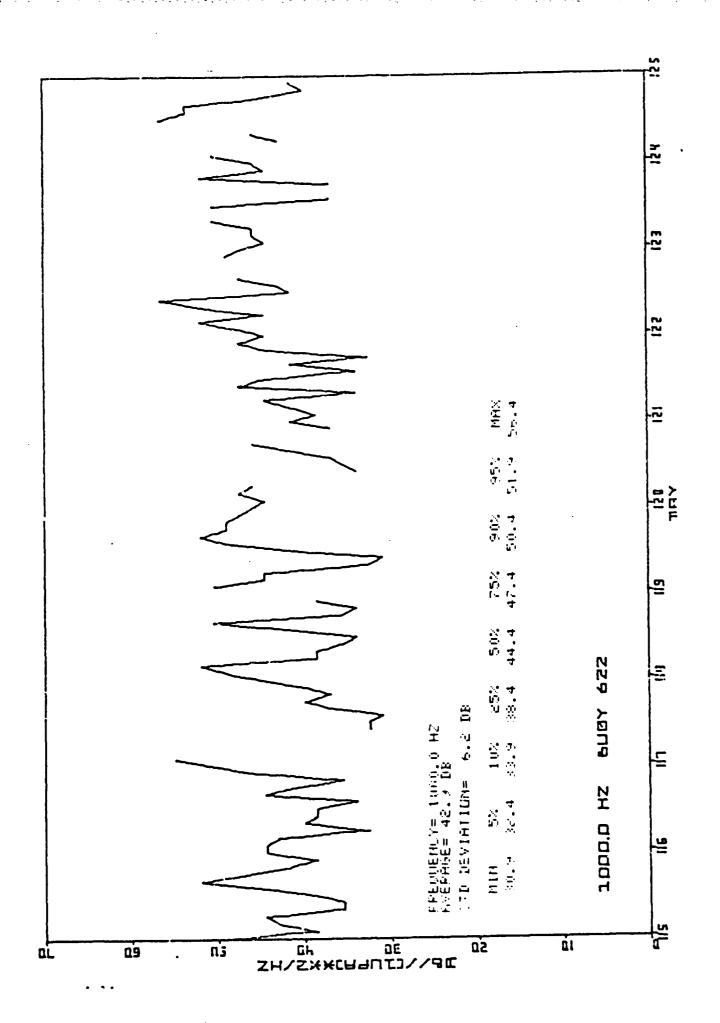


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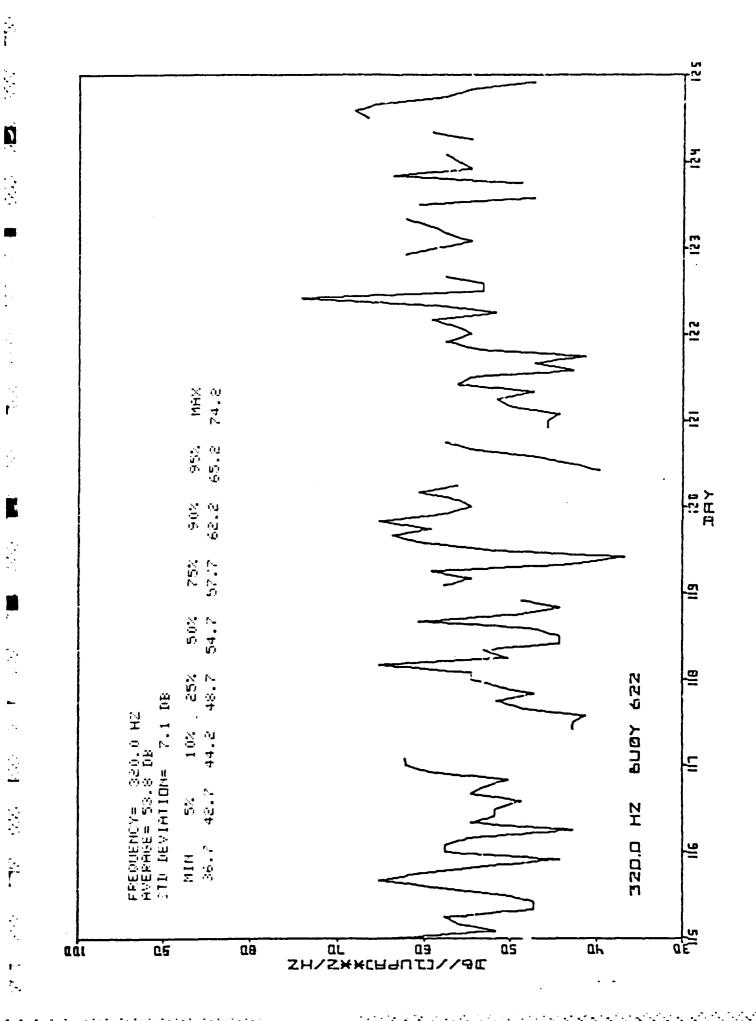
FLUE DRIFT, DRYS 125 - 135

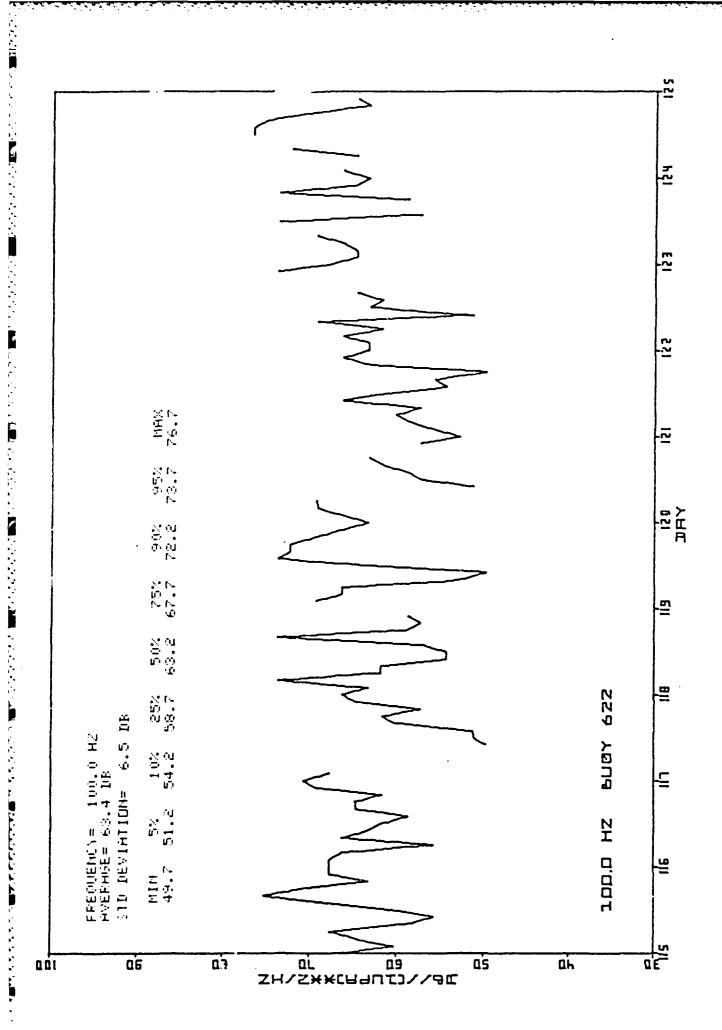
DOY 125-134 (5 May - !4 May, 1977)

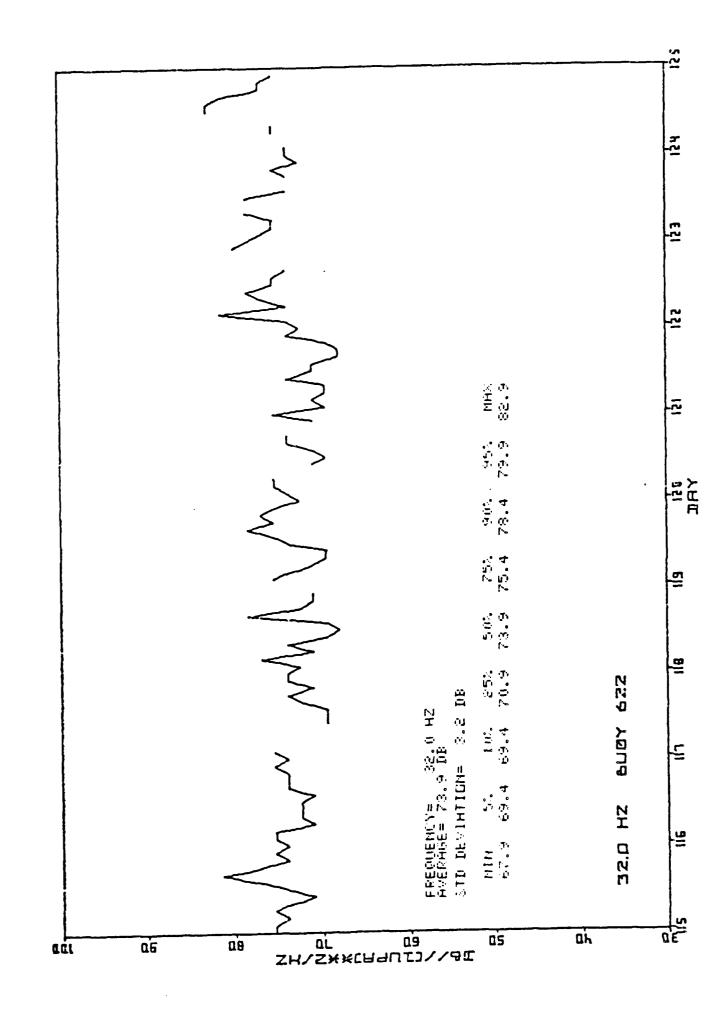
Time Histories, Histograms and Statistical Data

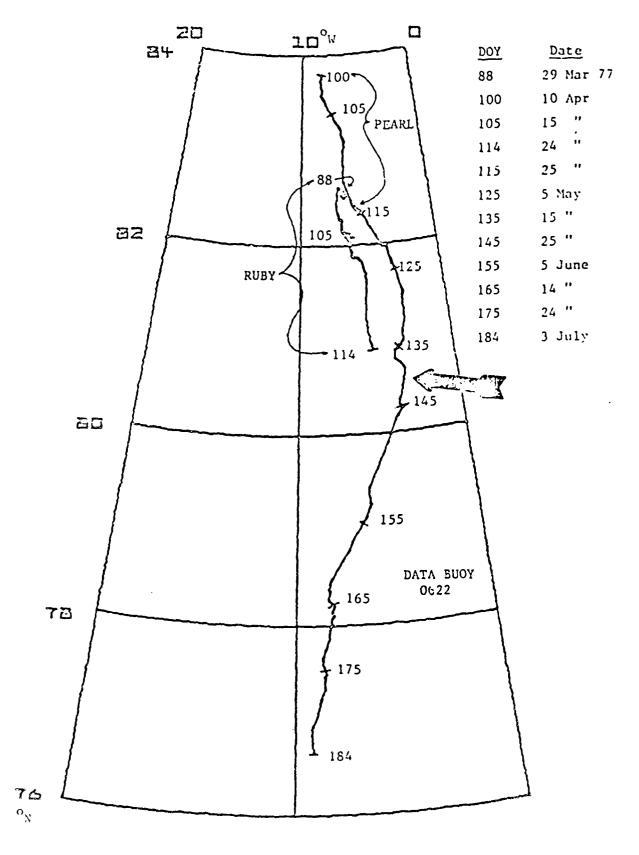


3 3;





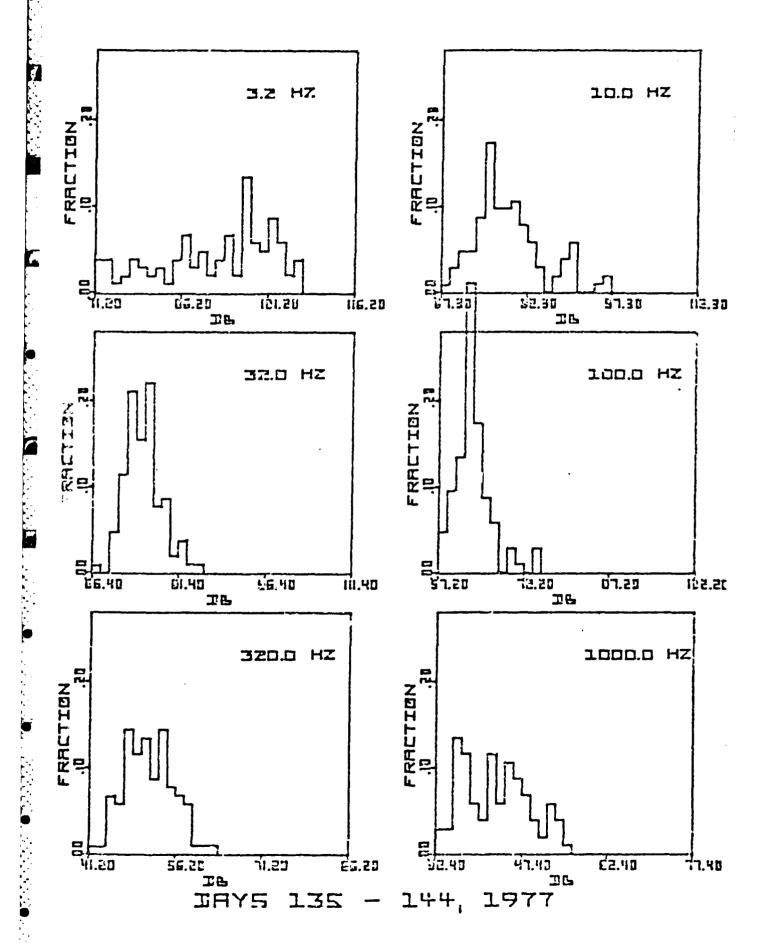


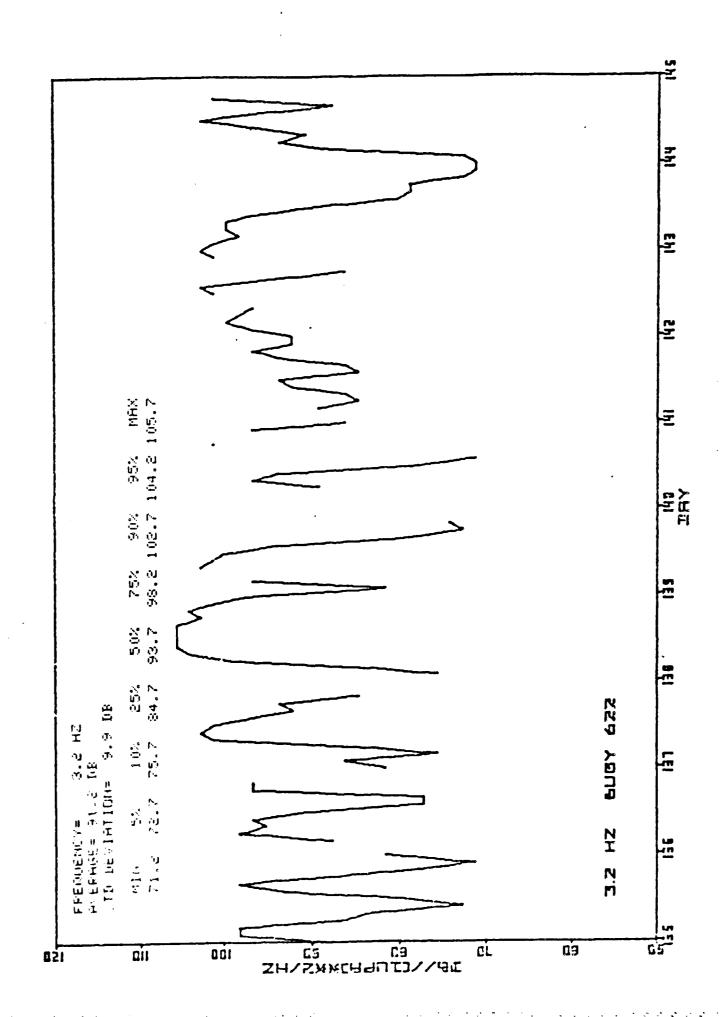


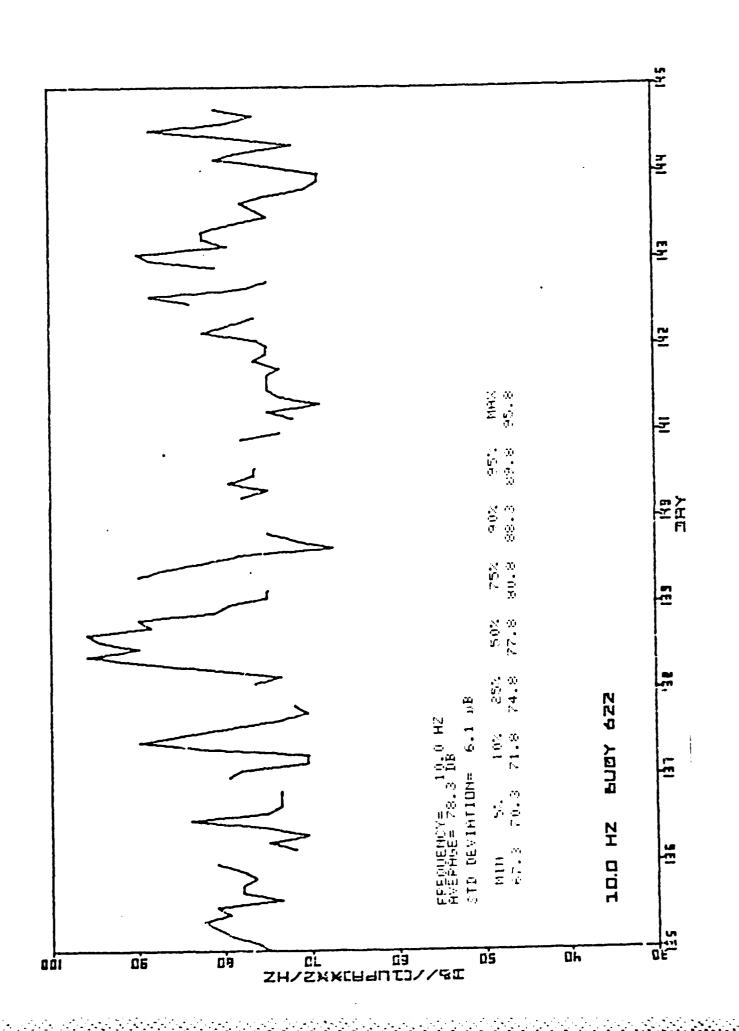
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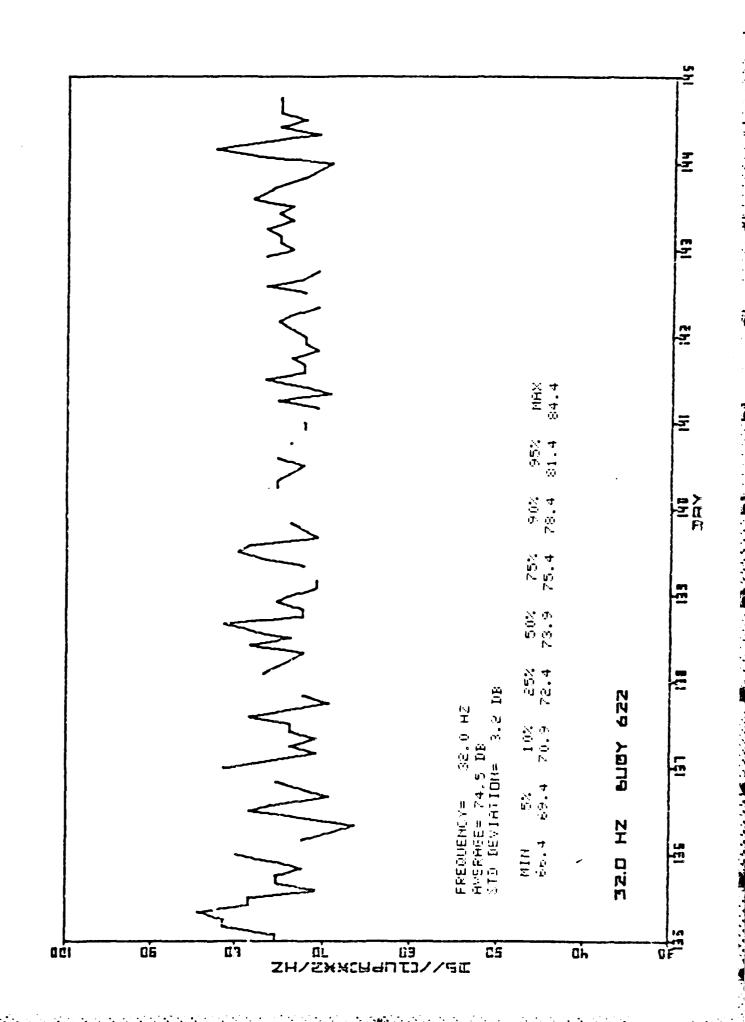
E

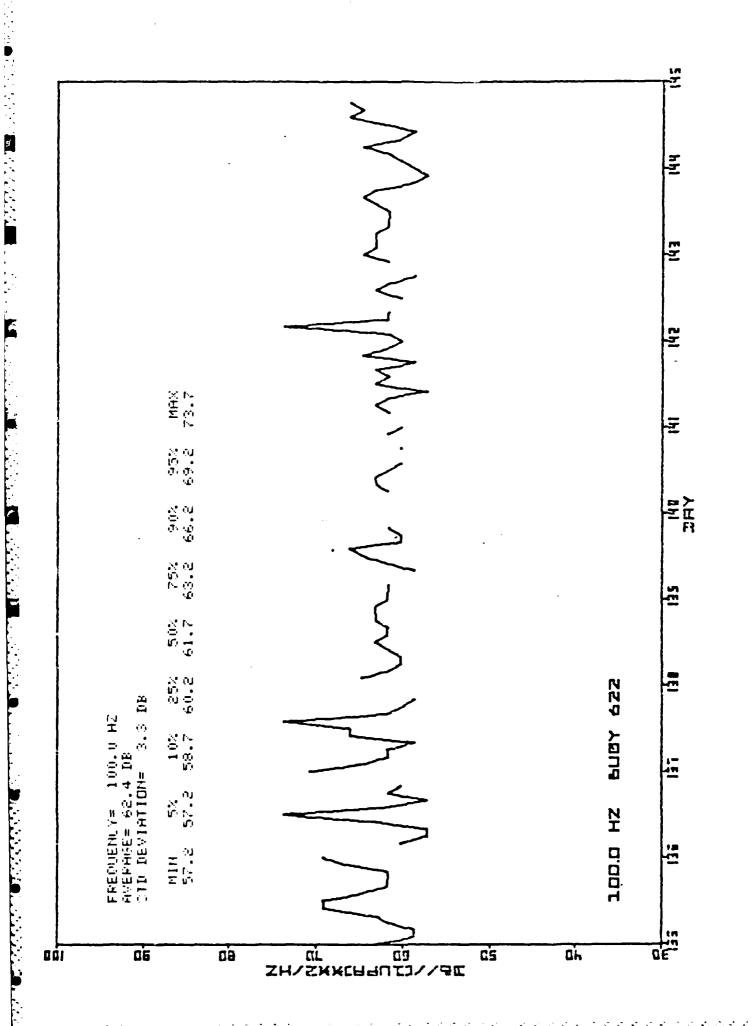
FLOE DRIFT, DAYS 135 - 145

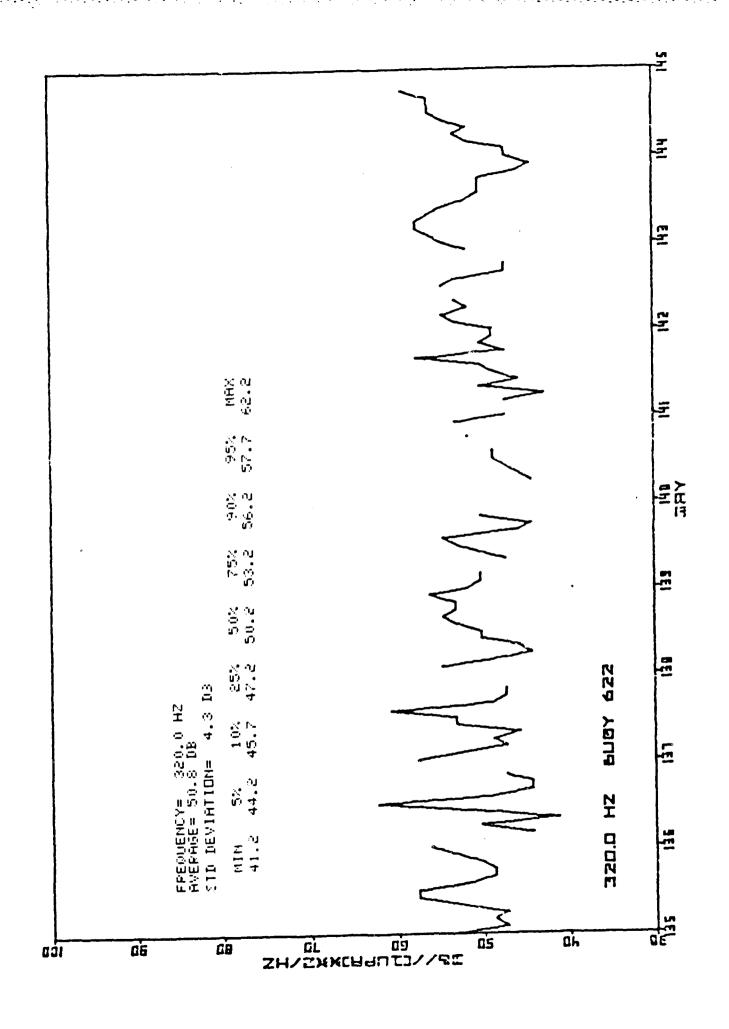




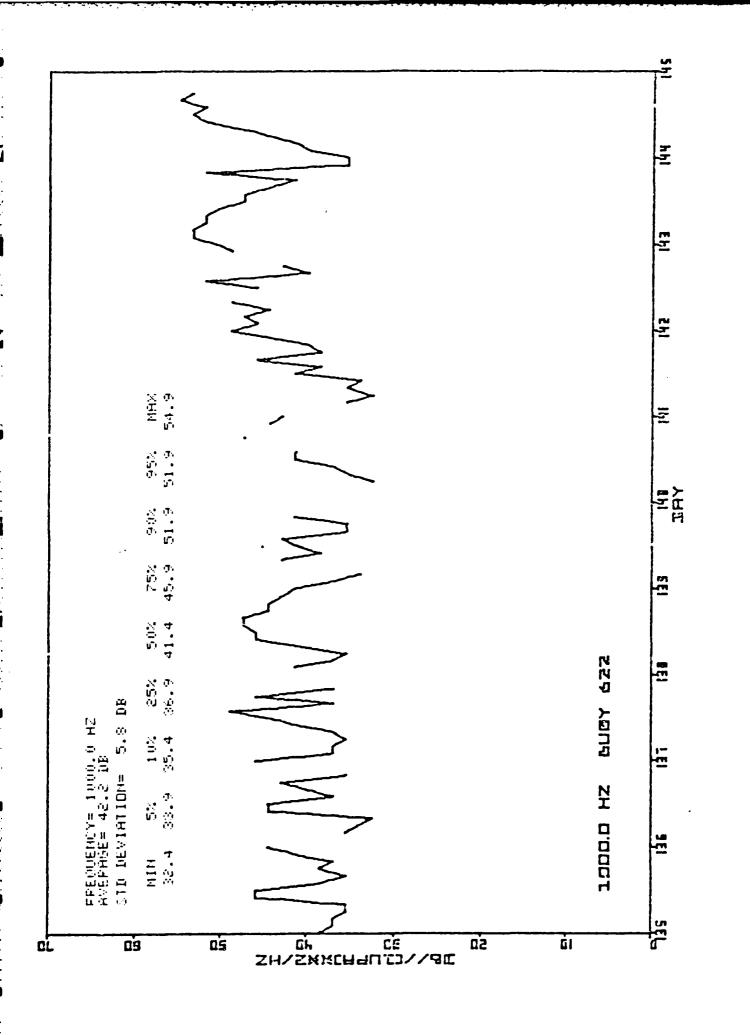






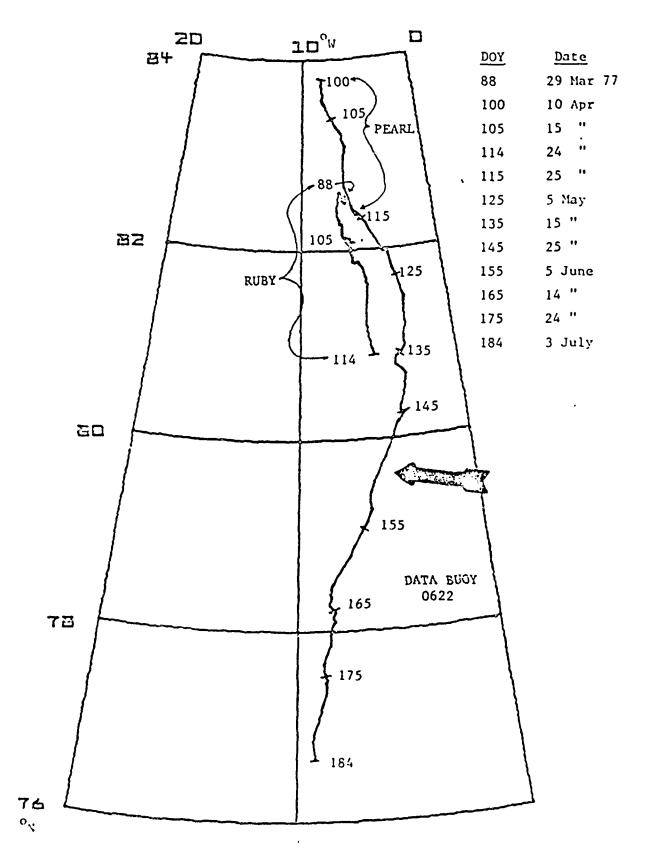


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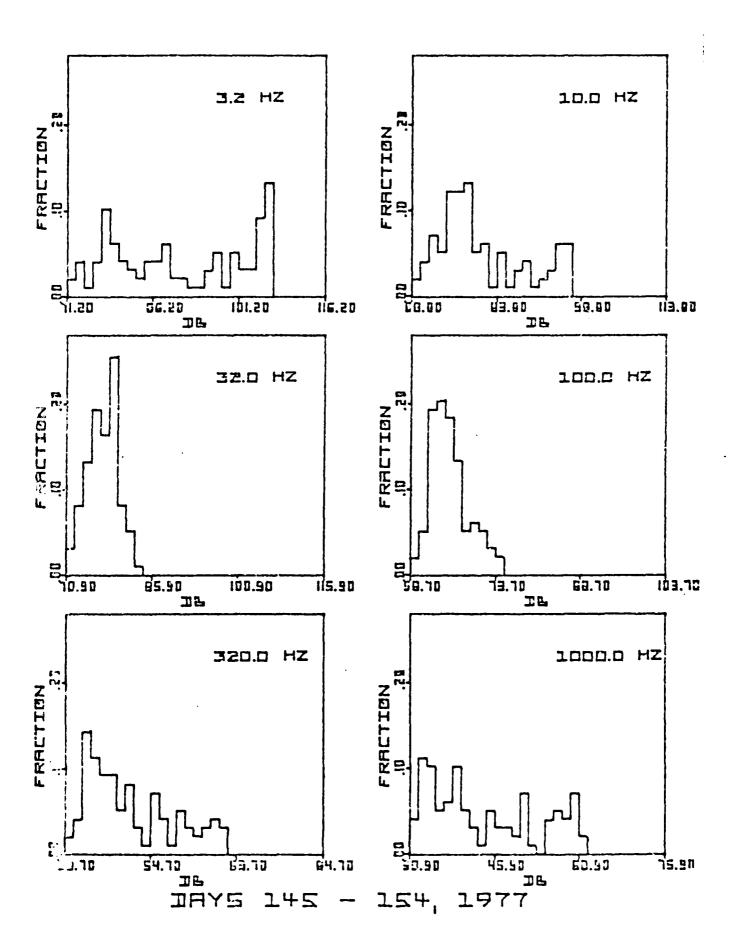


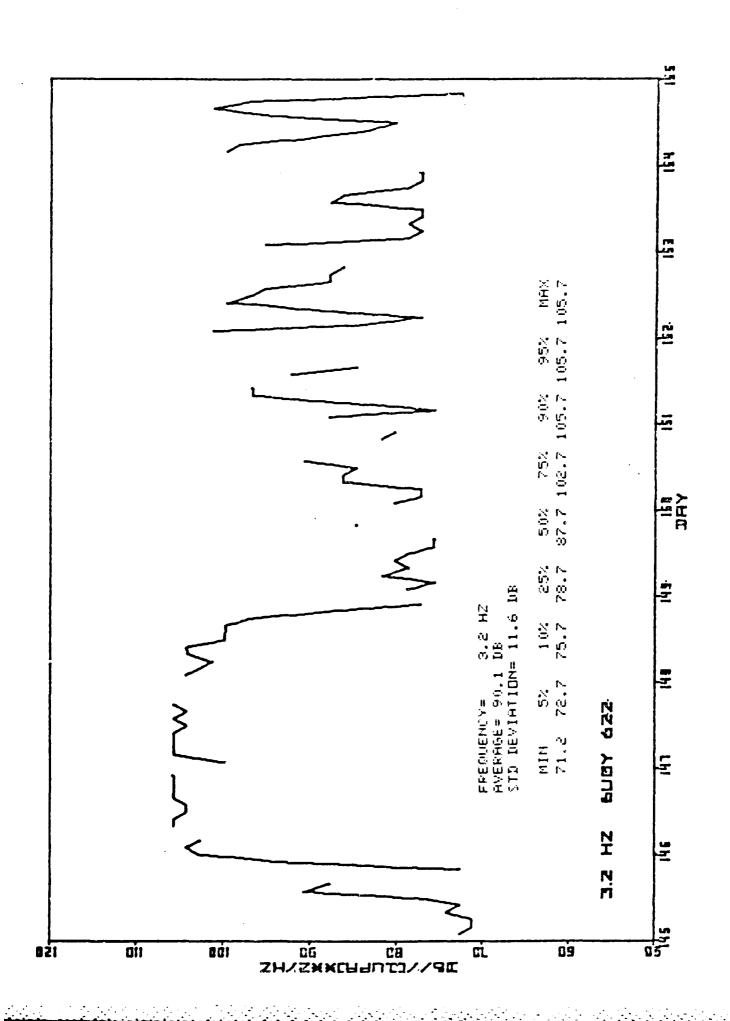
DOY 145-154 (25 May - 3 Jun, 1977)

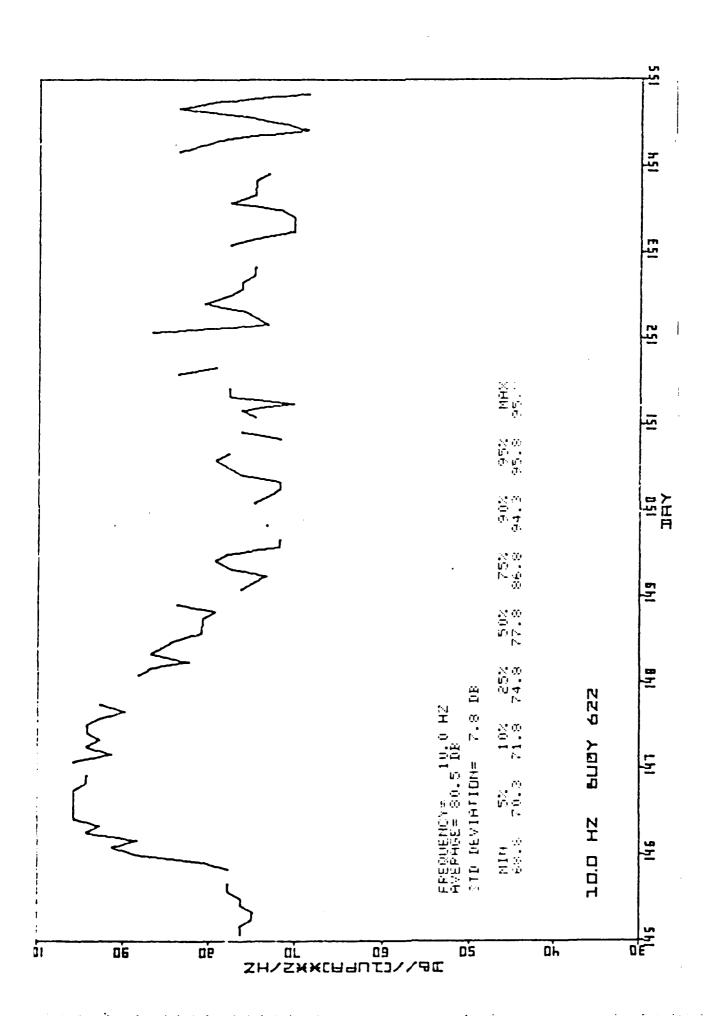
Time Histories, Histograms and Statistical Data

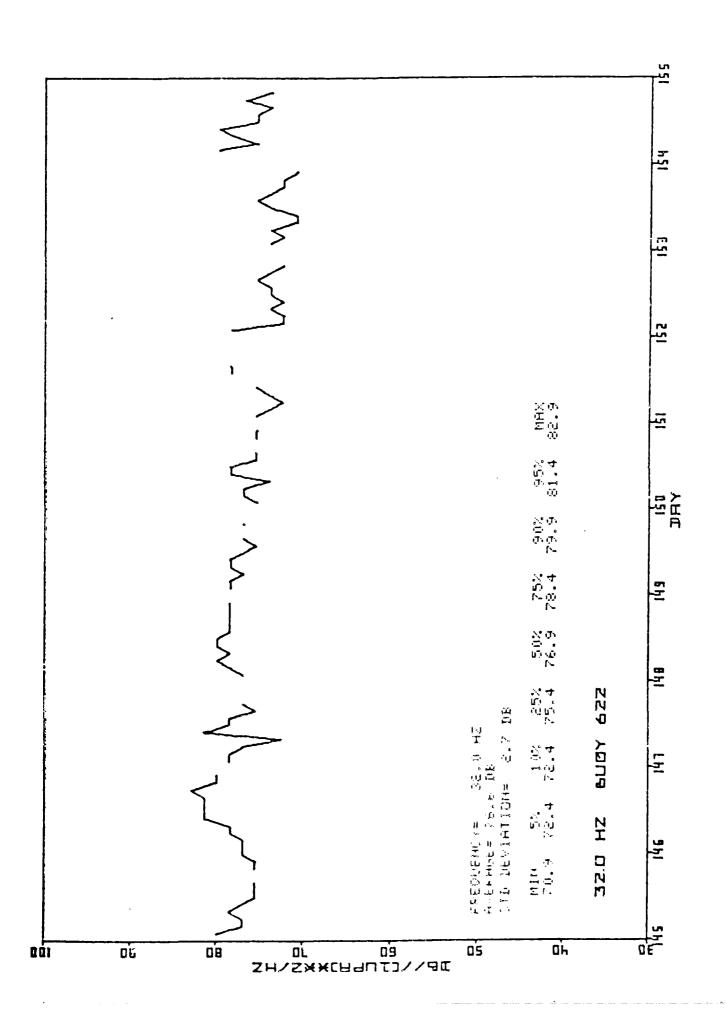


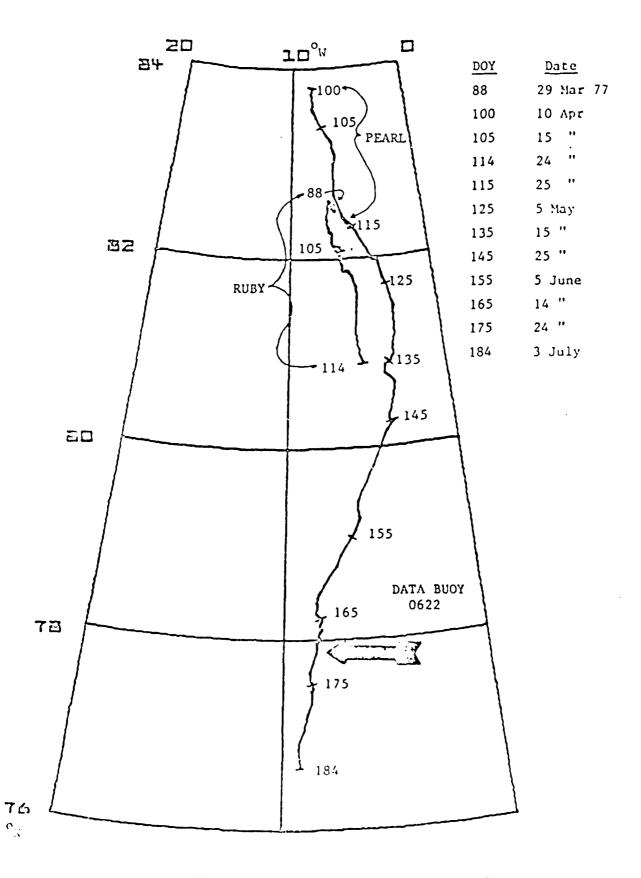
FLEE DRIFT, DRYS 145 - 155









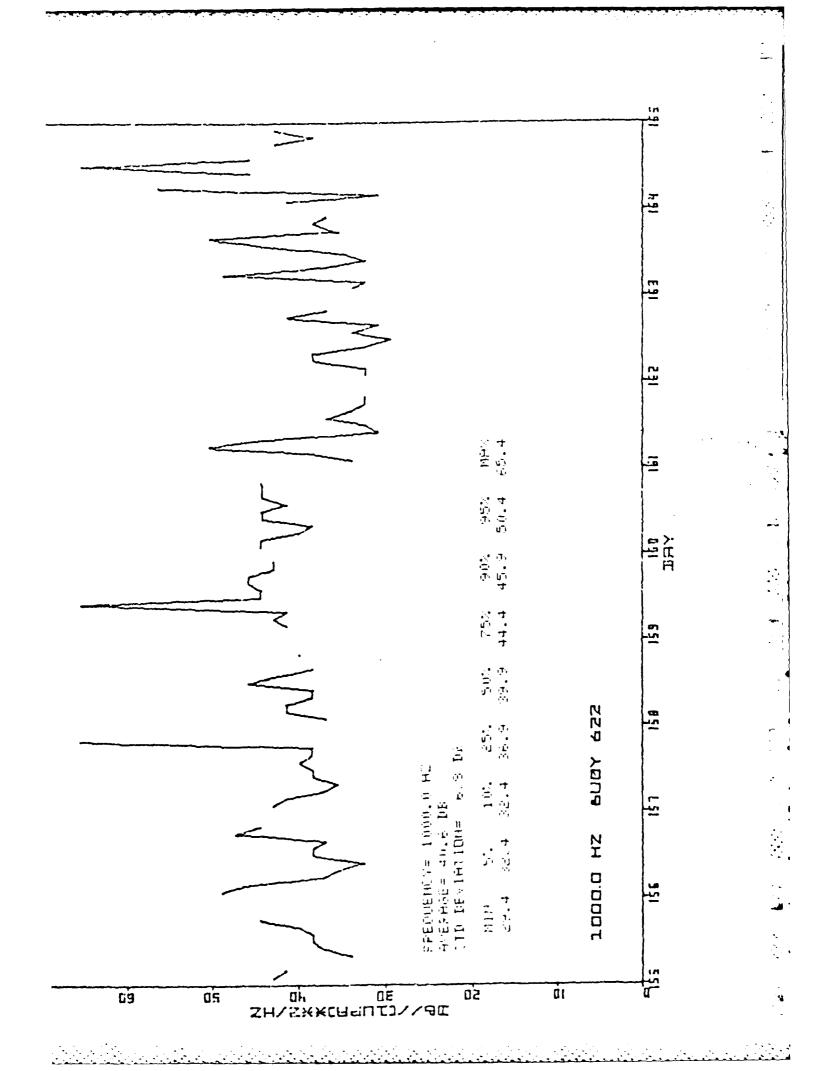


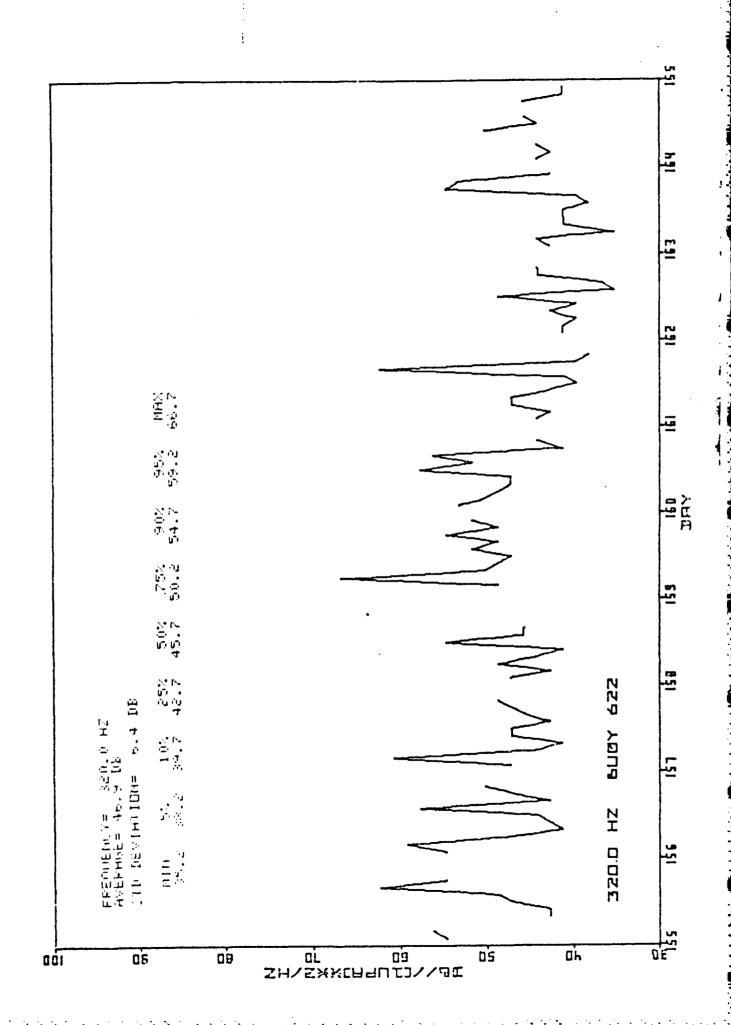
FLEE BRIFT, DAYS 165 - 175

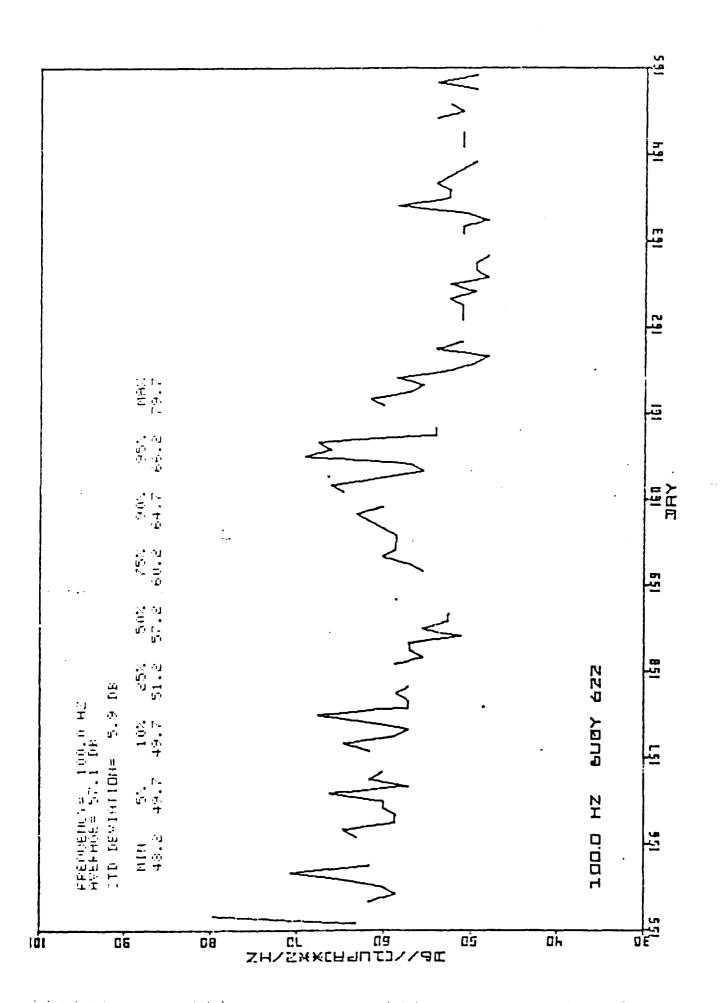
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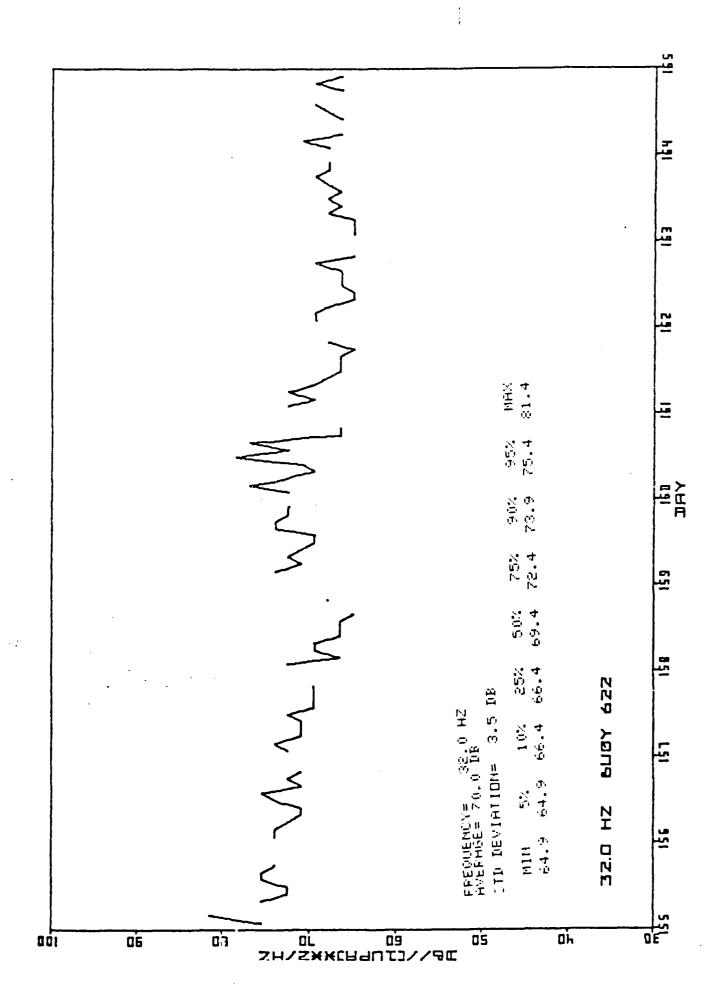
DOY 165-174 (14 Jun - 23 Jun, 1977)

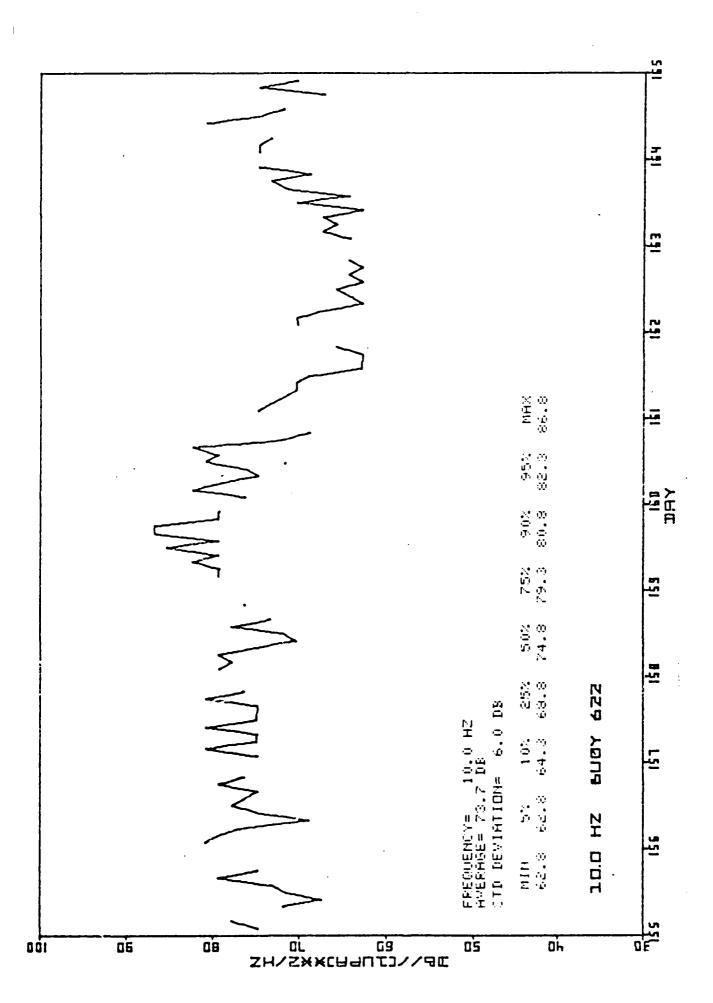
Time Histories, Histograms and Statistical Data

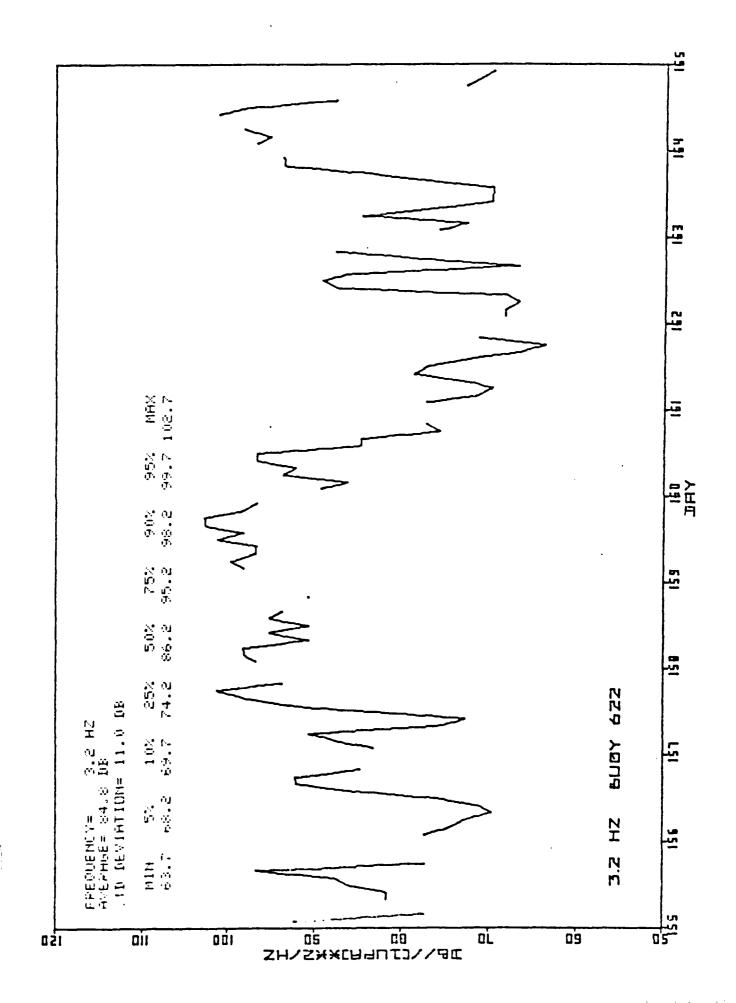


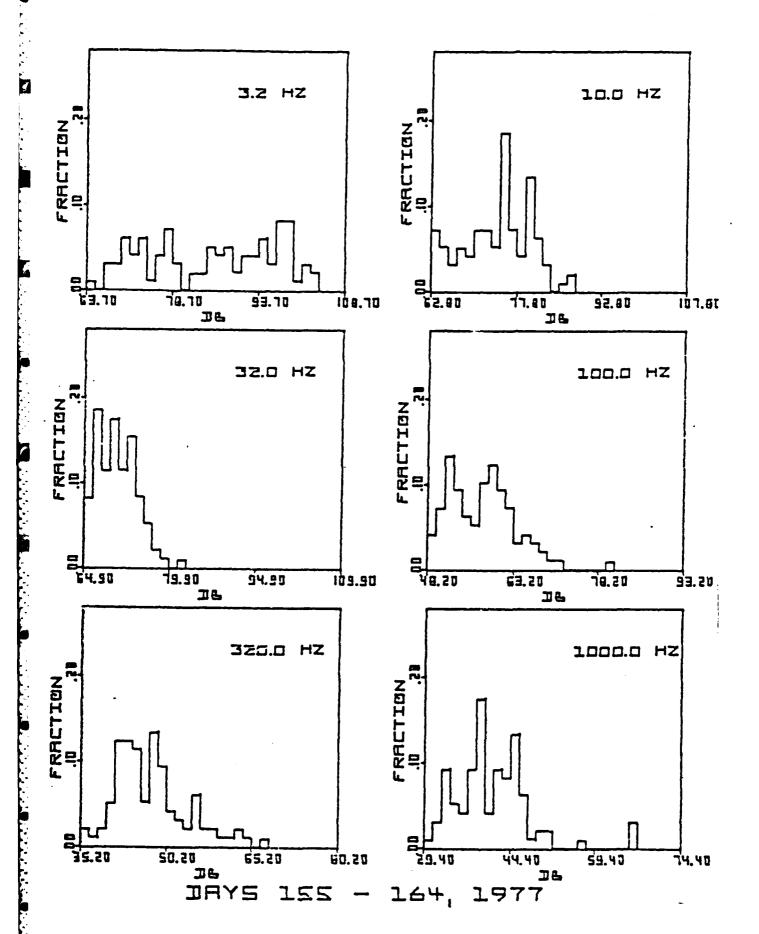


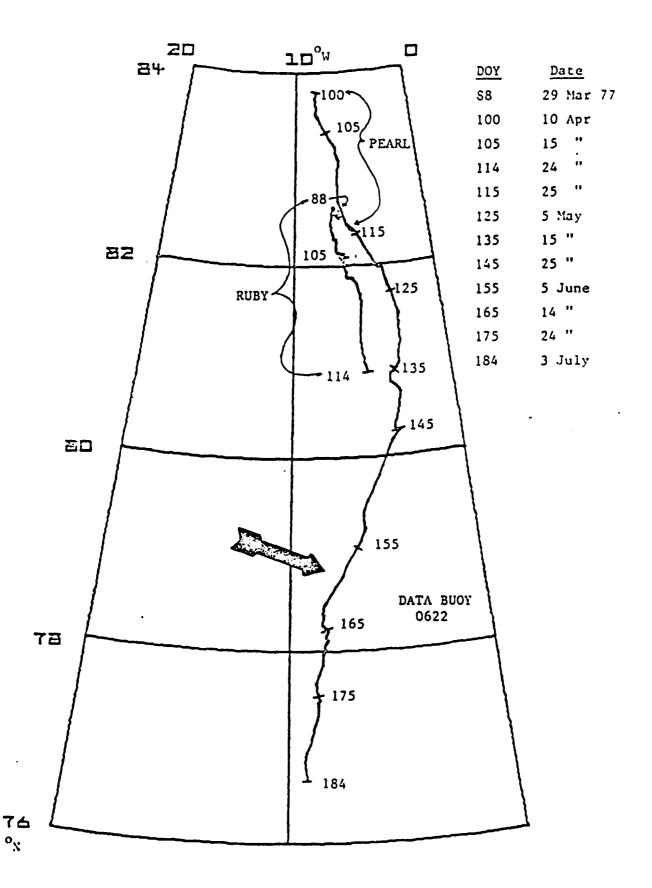










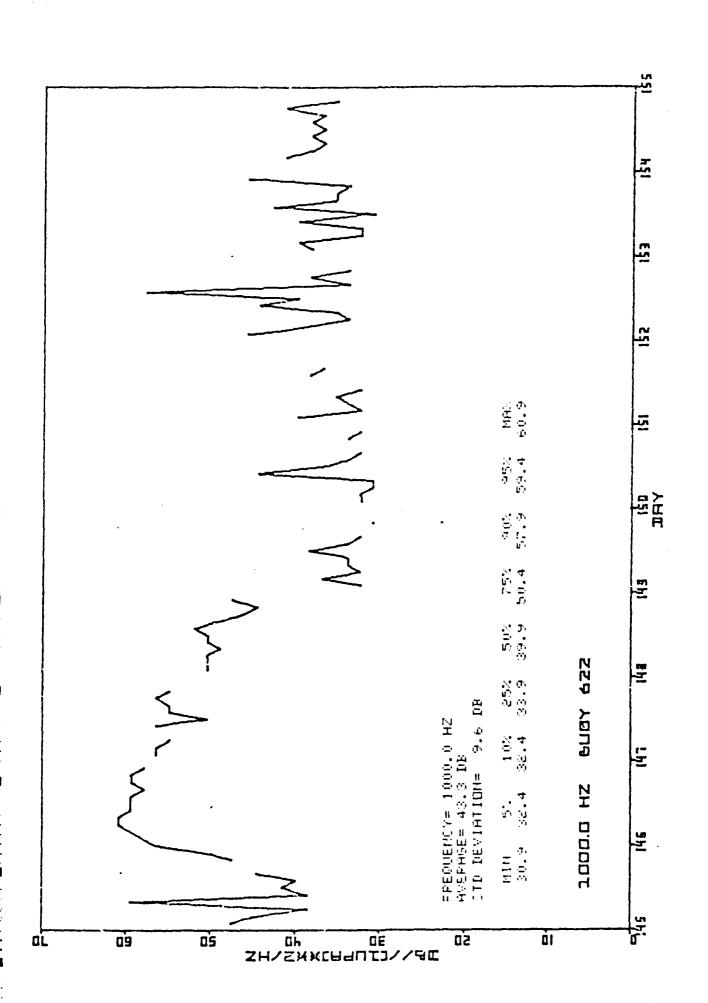


FLOE DRIFT, DRYS 155 - 165

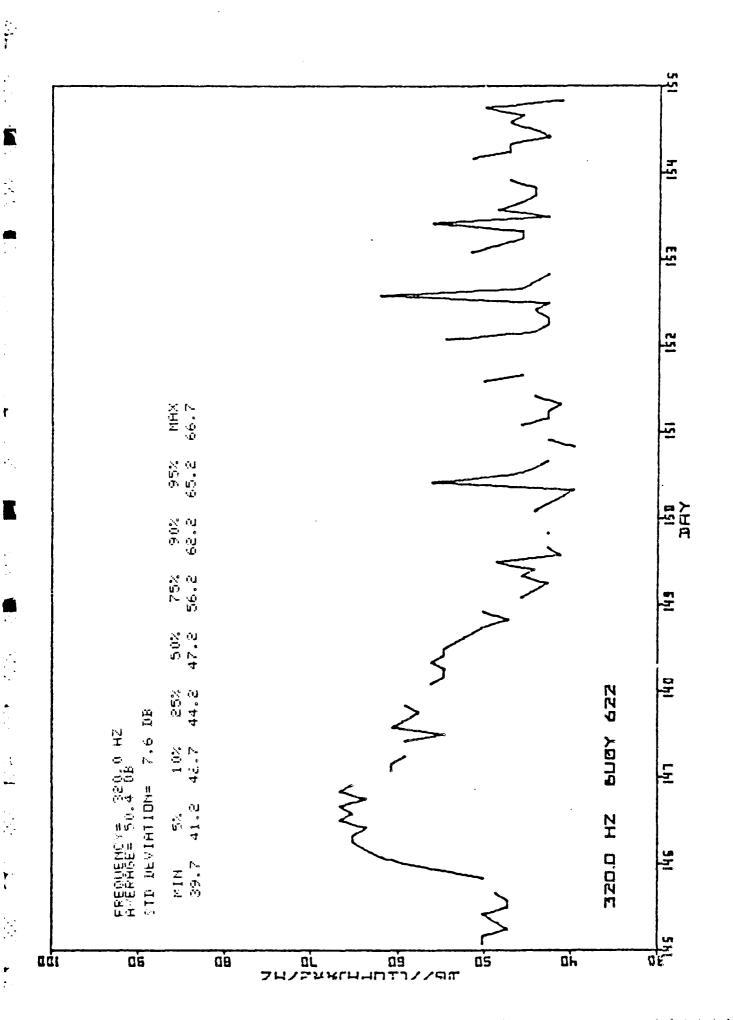
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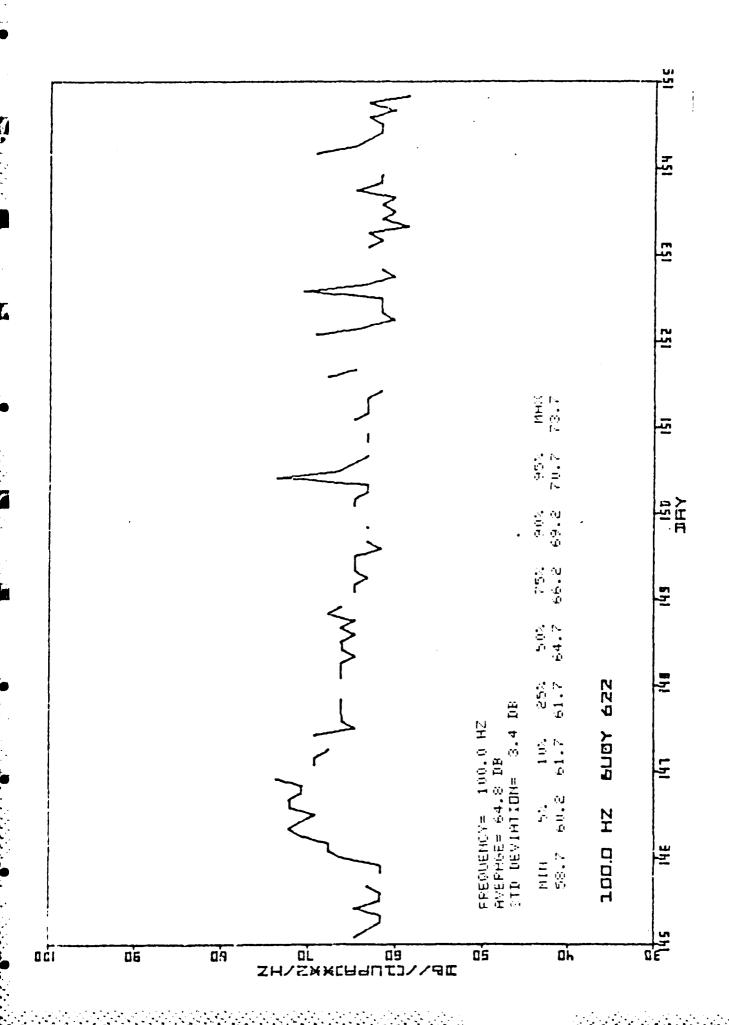
DOY 155-165 (4 Jun - 13 Jun, 1977)

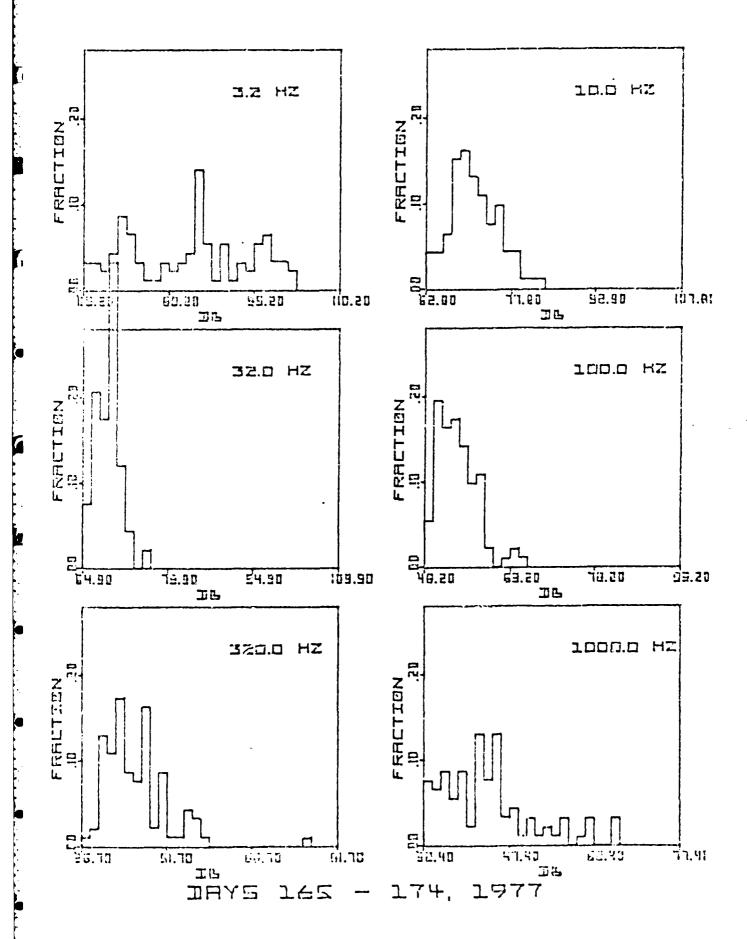
Time Histories, Histograms and Statistical Data

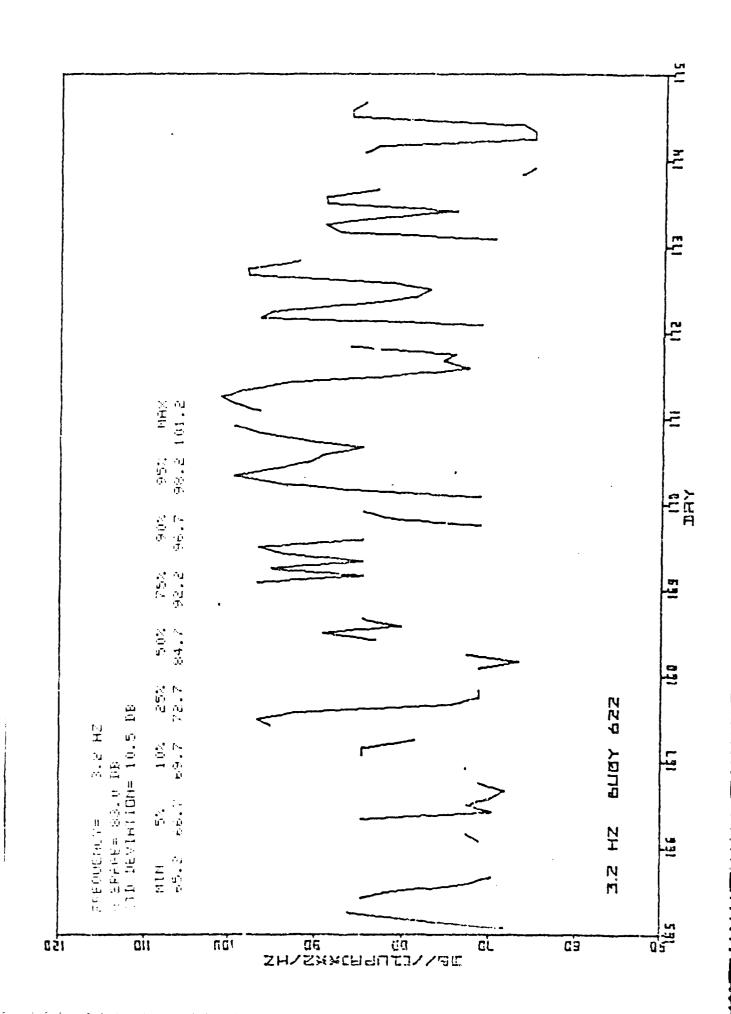


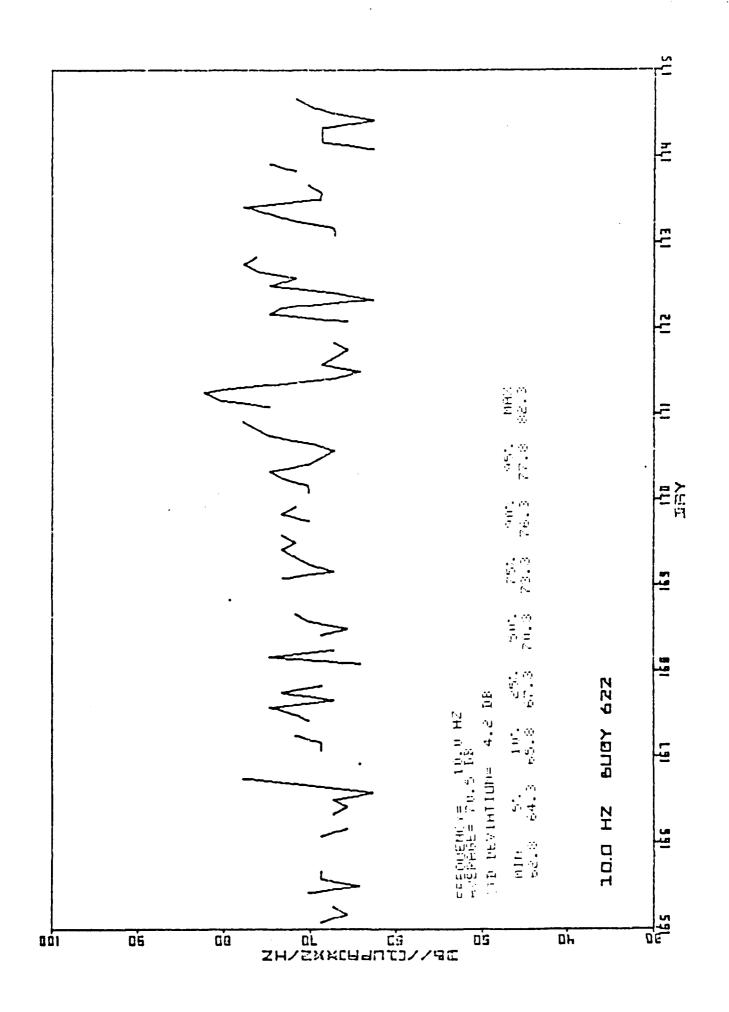
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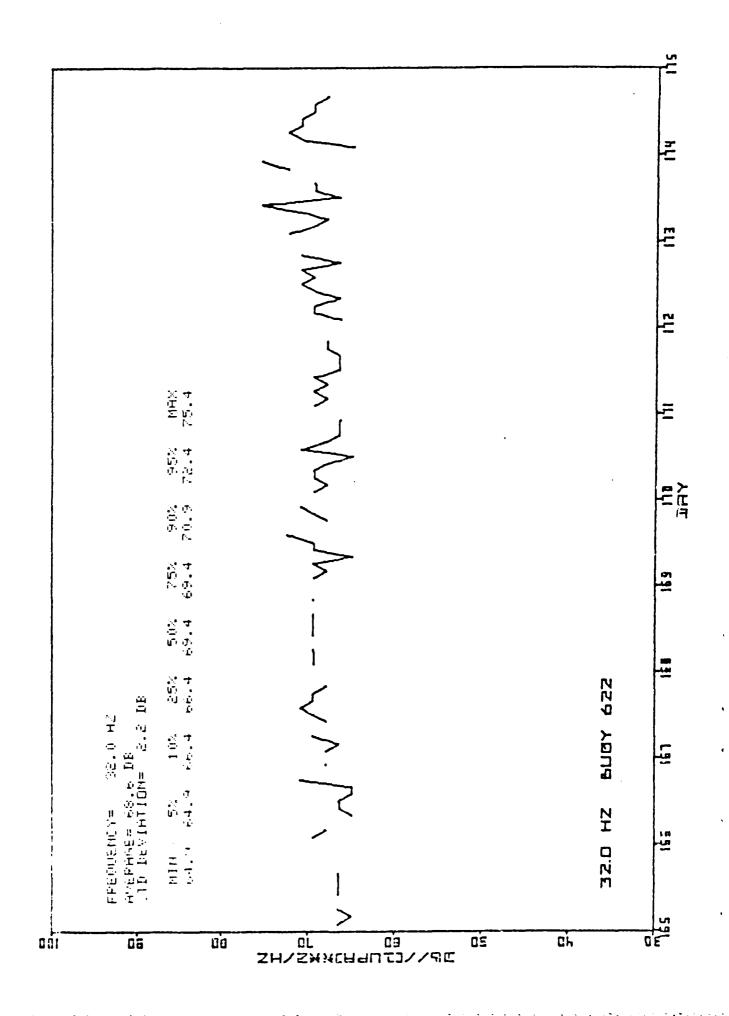


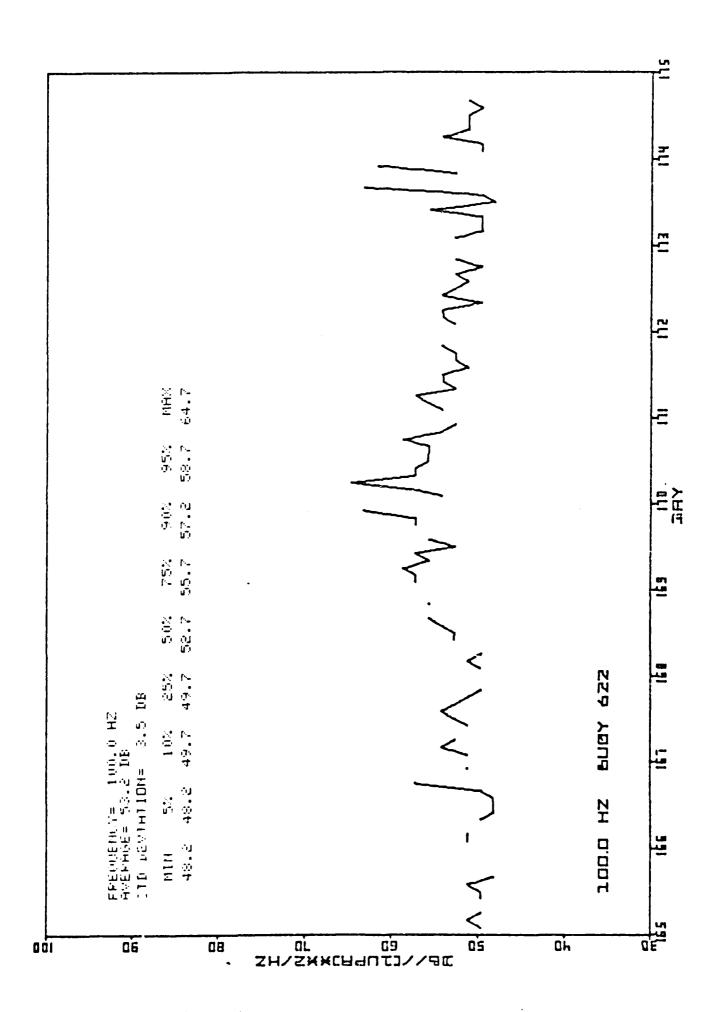


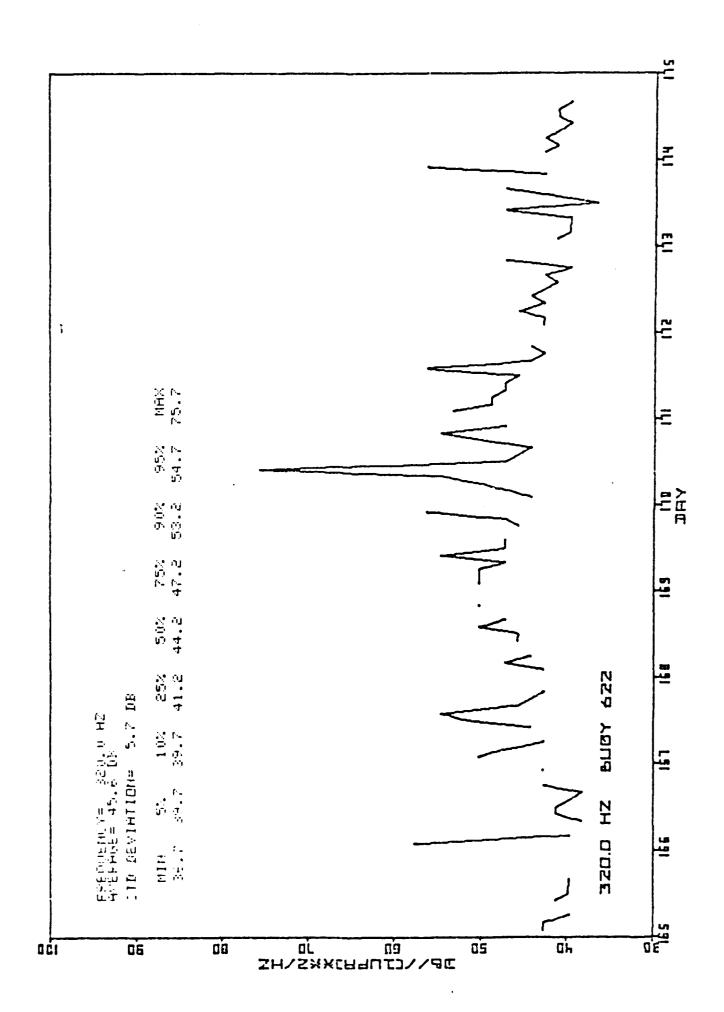


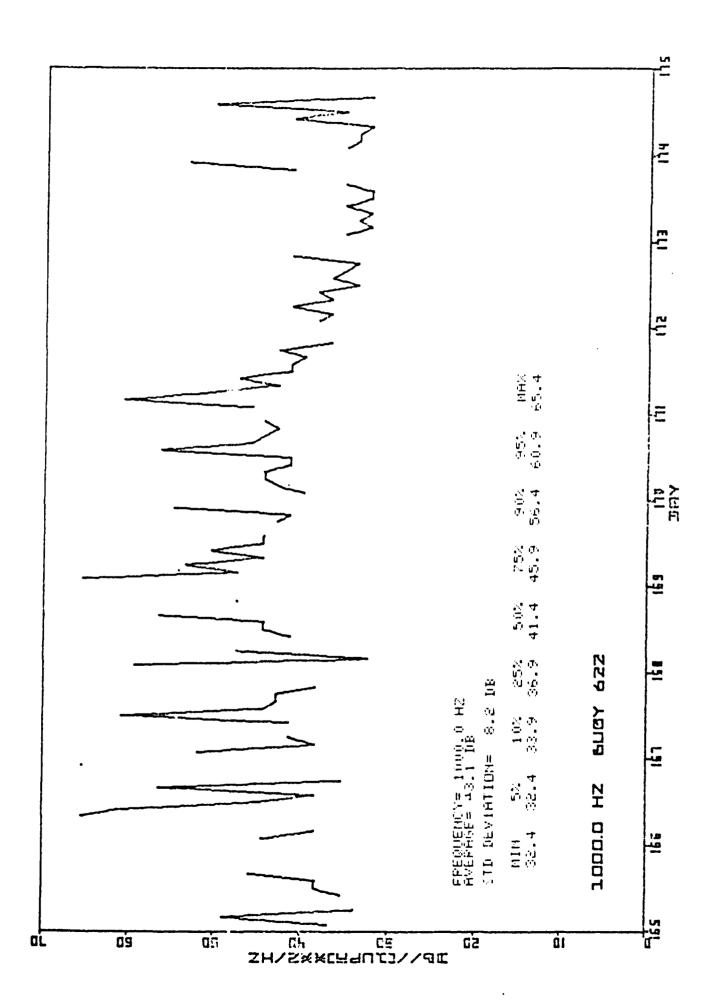






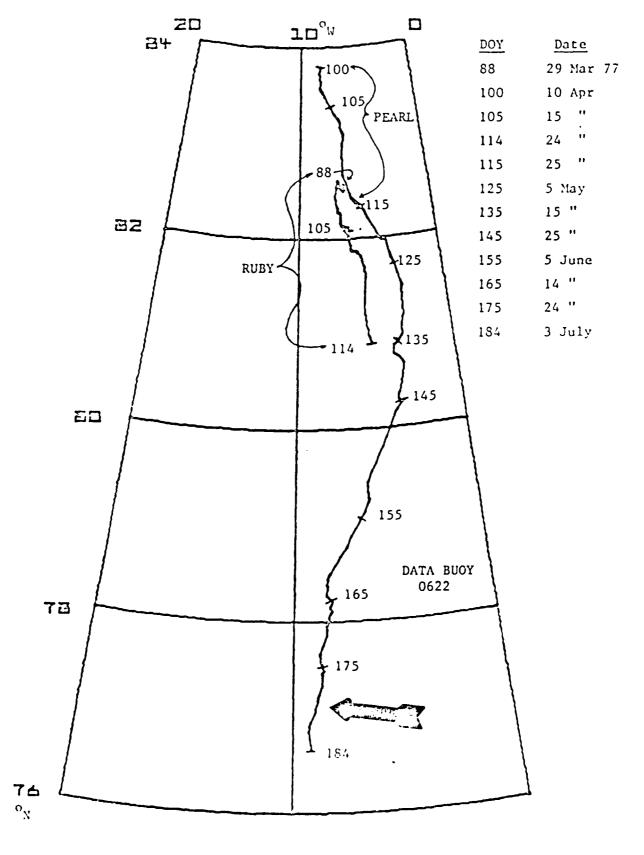




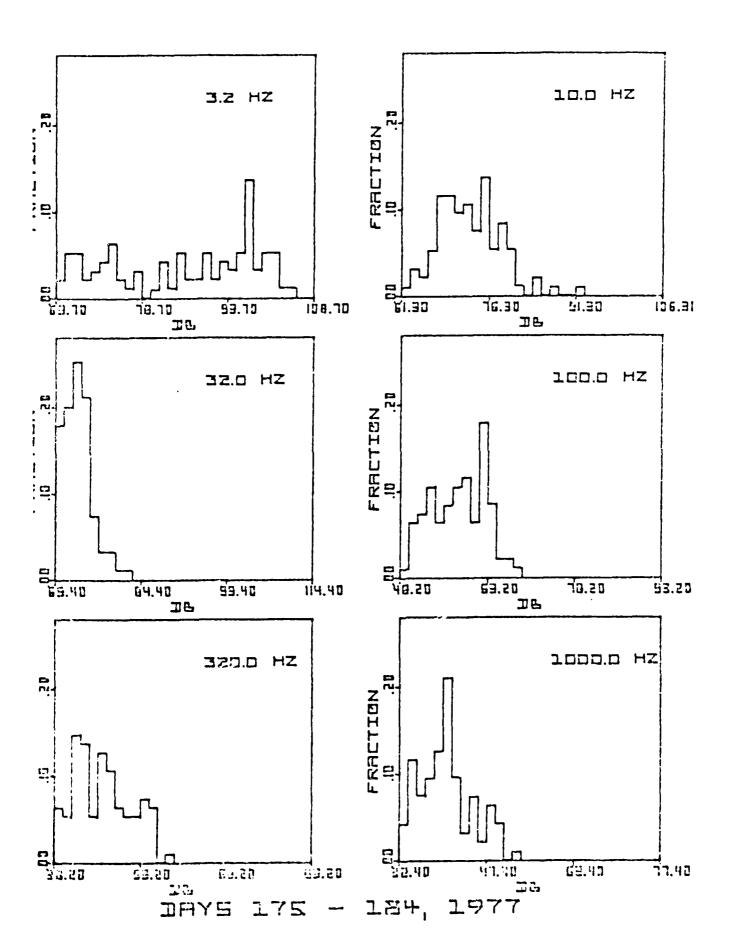


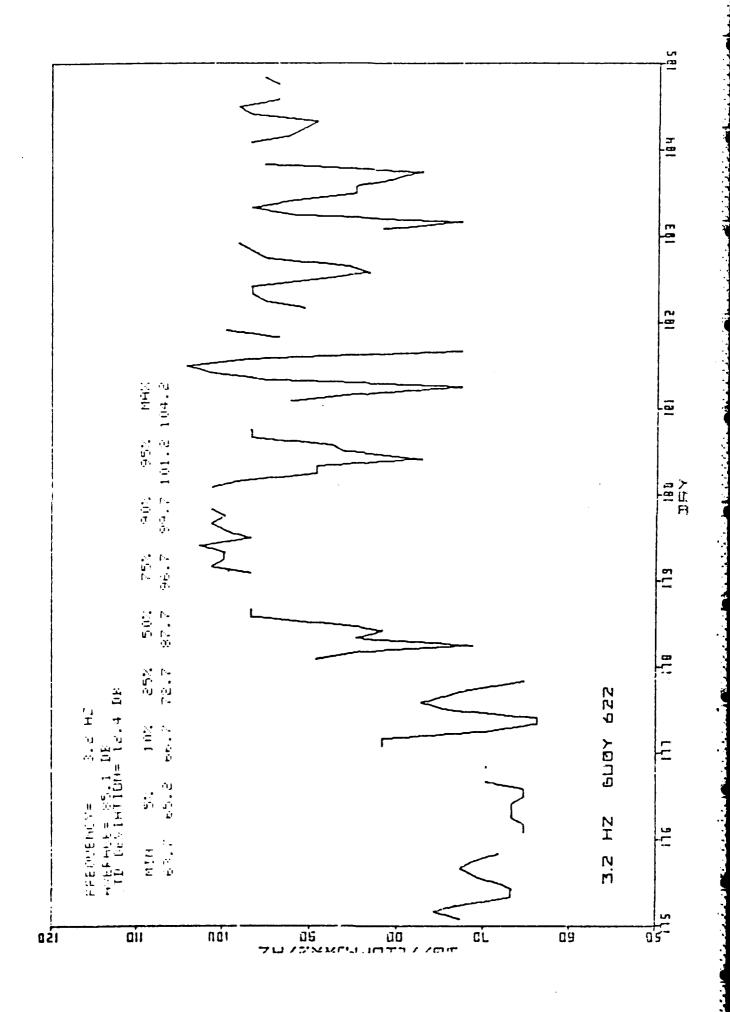
DOY 175-184 (24 Jun - 3 Jul, 1977)

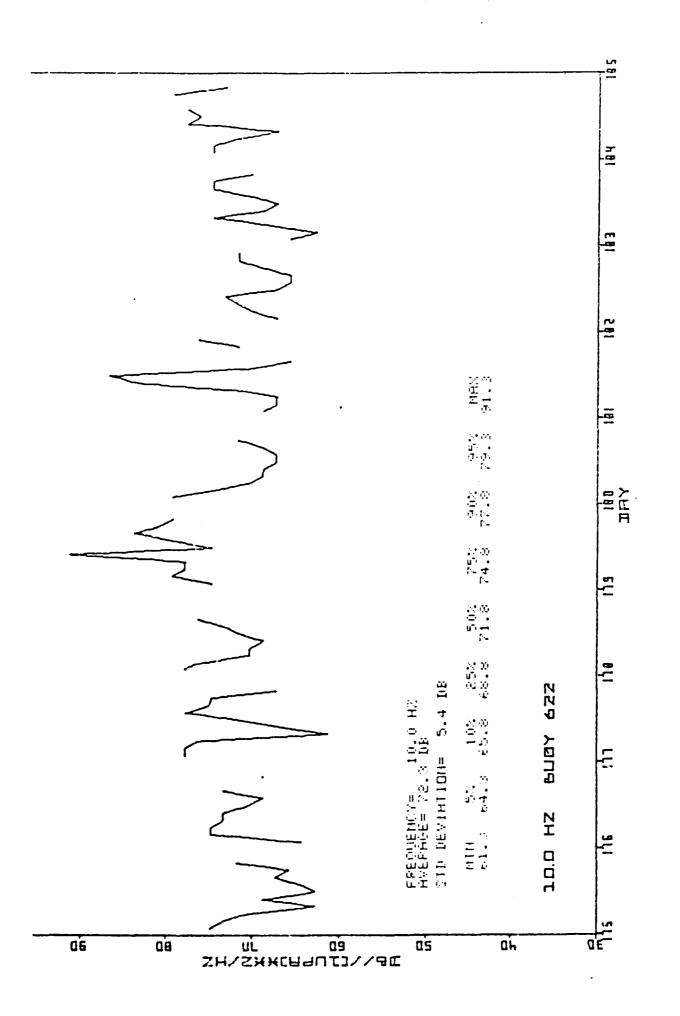
Time Histories, Histograms and Statistical Data

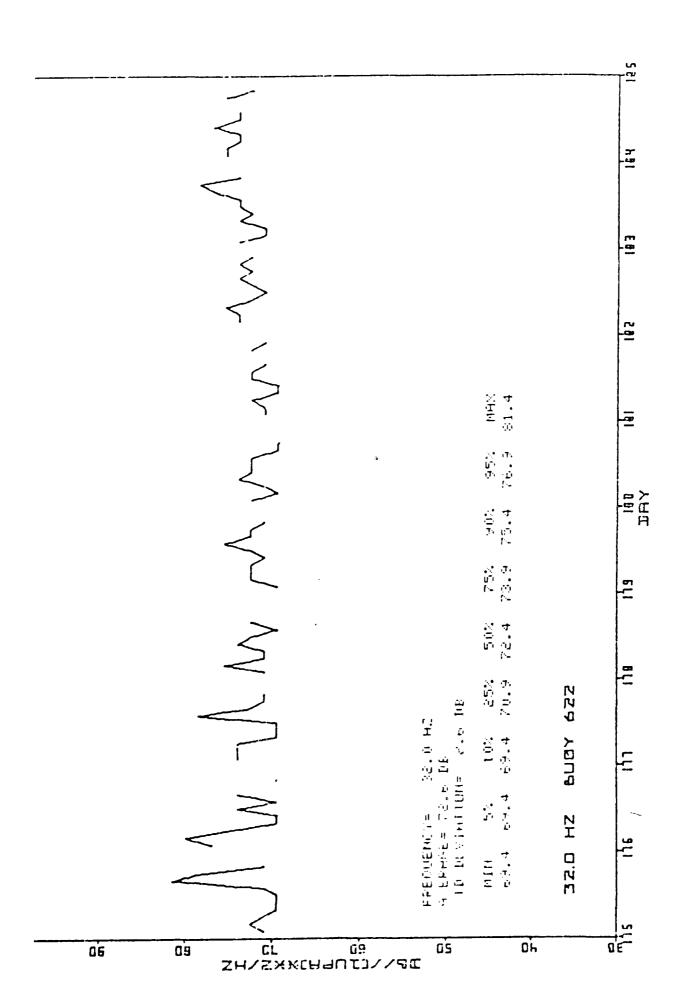


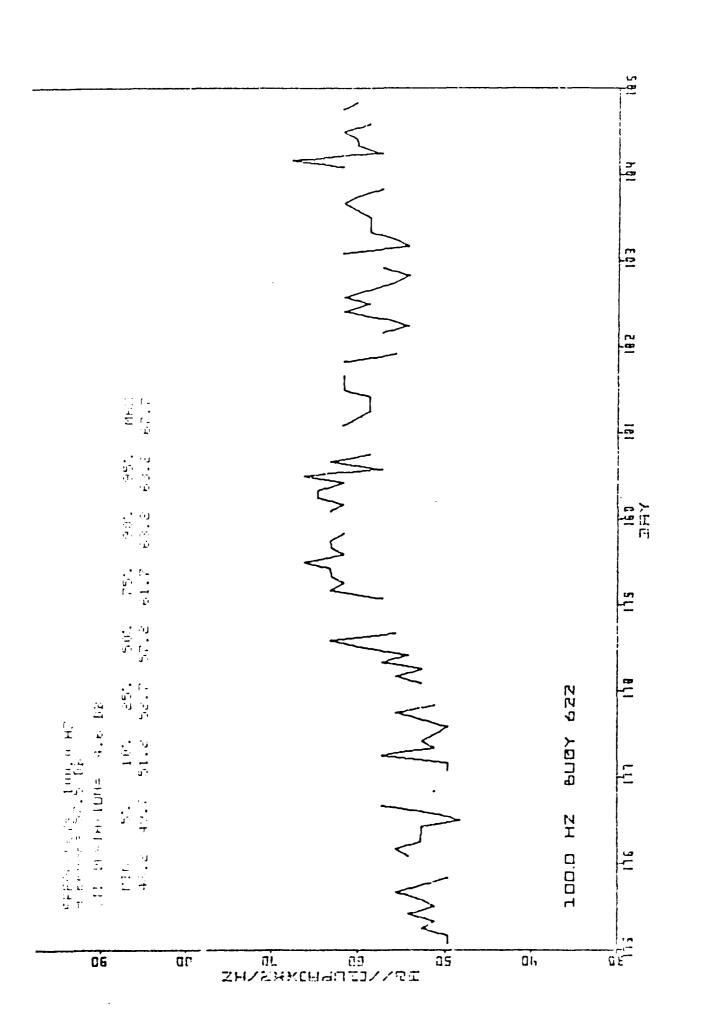
FLOE DRIFT, DRYS 175 - 184

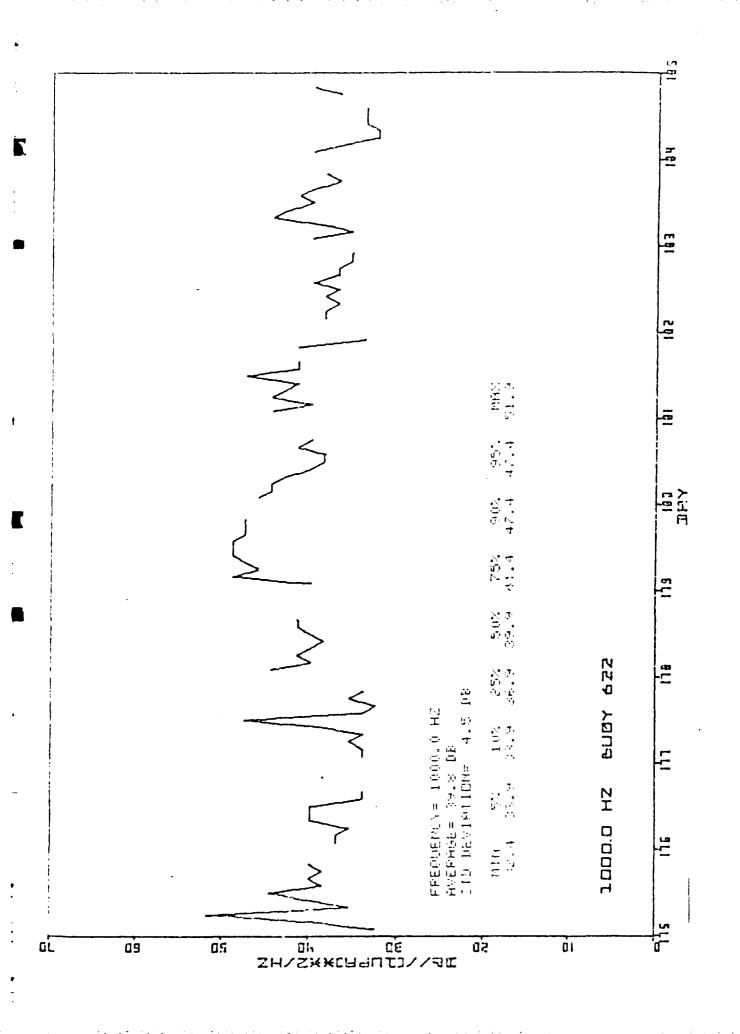


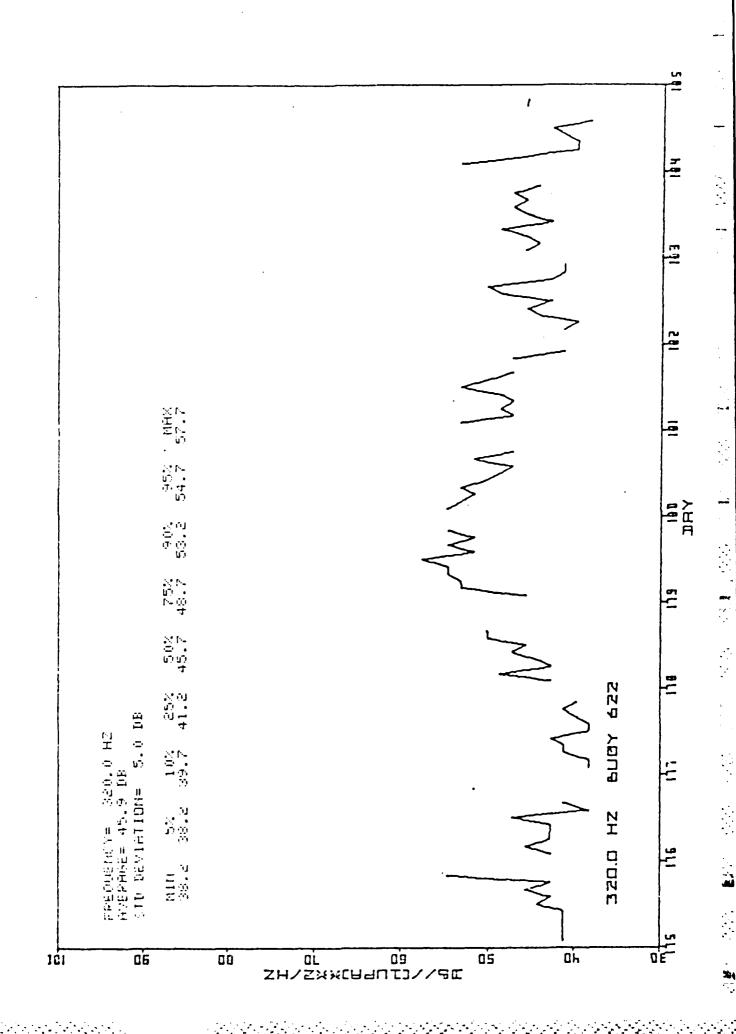












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